



CERTIFICATE OF ACCREDITATION

This is to attest that

INTERTEK INDIA PVT.LTD.

PLOT NO.289 & 290, UDYOG VIHAR, PHASE-II
GURUGRAM, HARYANA, 122016, INDIA

Testing Laboratory TL-1115

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Expiry Date April 1, 2025
Effective Date February 27, 2024



A handwritten signature in black ink, reading 'Raj Nathan'.

President

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SCOPE OF ACCREDITATION

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INTERTEK INDIA PVT.LTD.

www.intertek.com

Contact Name Shipra Jain

Contact Phone +91 9667334622

Accredited to ISO/IEC 17025:2017

Effective Date February 27, 2024

Field of Testing: Mechanical	
Matrix: Paper and paper products	
ASTM D642	Standard Test Method for determining Compressive Resistance of Shipping Containers, Components, and Unit Loads
ASTM D882	Standard Test Method for Tensile Properties of Thin Plastic Sheeting
ASTM D999	Standard Test Methods for Vibration Testing of Shipping Containers
ASTM D1709	Standard Test Methods for Impact Resistance of Plastic Film by the Free-Falling Dart Method
ASTM D2176	Standard Test Method for Folding Endurance of Paper and Plastics Film by the M.I.T. Tester
ASTM D3078	Standard Test Method for Determination of Leaks in Flexible Packaging by Bubble Emission
ASTM D3330: 04	Standard Test Method for Peel Adhesion of Pressure-Sensitive Tape Exclusion: Clause 16. Test Method F—Single Coated Tapes at 90° Angle
ASTM D3985	Standard Test Method for Oxygen Gas Transmission Rate Through Plastic Film and Sheeting Using a Coulometric Sensor
ASTM D4169	Standard Practice for Performance Testing of Shipping Containers and Systems
ASTM D4727	Standard Specification for Corrugated and Solid Fiberboard Sheet Stock (Container Grade) and Cut Shapes Only following clause Clause 6.4- Construction
ASTM D5264-98	Standard Practice for Abrasion Resistance of Printed Materials by the Sutherland Rub Tester
ASTM F88	Standard Test Method for Seal Strength of Flexible Barrier Materials
ASTM F1249	Standard Test Method for Water Vapor Transmission Rate Through Plastic Film and Sheeting Using a Modulated Infrared Sensor
IEC 60068-2-6	Environmental testing – Part 2-6: Tests – Test Fc: Vibration (sinusoidal)
IS 1060-1	Methods of Sampling and Test for Paper and Allied Products Part 1 Test Methods for General Purpose
ISO 535	Paper and board — Determination of water absorptiveness — Cobb method

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ISO 536	Paper and board — Determination of grammage
ISO 2470	Paper, board and pulps — Measurement of diffuse blue reflectance factor — Part 1: Indoor daylight conditions (ISO brightness)
ISO 2471	Paper and board — Determination of opacity (paper backing) — Diffuse reflectance method
ISO 2759	Board — Determination of bursting strength
ISO 3034	Corrugated fiberboard — Determination of single sheet thickness
ISO 3035	Corrugated fibreboard — Determination of flat crush resistance
ISO 3036	Board — Determination of puncture resistance
ISO 3037	Corrugated fibreboard — Determination of edgewise crush resistance (unwaxed edge method)
ISO 5628	Paper and board — Determination of bending stiffness — General principles for two-point, three-point and four-point methods Only following clause Clause 6.1- Two Point Bending
ISO 11608-1	Needle-based injection systems for medical use — Requirements and test methods —Part 1: Needle-based injection systems Exclusion: 10.2.3 Life-cycle testing (systems designations A and B only) — Preconditioning
ISO 12048	Packaging – Complete, filled transport packages – Compression and stacking tests using a compression tester
ISTA 1A	Packaged-Products 150 lb (68 kg) or less
ISTA 1B	Packaged-Products over 150 lb (68 kg)
ISTA 1C	Extended Testing for Packaged-Products 150 lb (68 kg) or Less
ISTA 1D	Extended Testing for Packaged-Products Over 150 lb (68 kg)
ISTA 1E	Unitized Loads of Same Product
ISTA 2A	Packaged-Products 150 lb (68 kg) or less
ISTA 2B	Packaged-Products Over 150 lb (68 kg)
ISTA 2C	Furniture Packages
ISTA 3A	Packaged-Products for Parcel Delivery System Shipment 70 kg (150 lb) or less
ISTA 3B	Packaged-Products for Less-Than-Truckload (LTL) Shipment
ISTA 3E	Similar Packaged-Products in Unitized Loads for Truckload Shipment
ISTA 6	e-Commerce Fulfillment for Parcel Delivery Shipment
TAPPI T410 OM-13	Grammage of paper and paperboard (weight per unit area)
TAPPI T511	Folding endurance of paper (MIT tester)

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TAPPI T810	Bursting strength of corrugated board Test
TAPPI T811-OM 11	Edgewise compressive strength of corrugated fiberboard (short column test)
Field of Testing: Mechanical	
Matrix: Performance / Durability/ Safety Test	
16 CFR Part 1261	Safety Standard for Clothing Storage Units
ANSI/BIFMA X5.1	General Purpose office chairs Tests
ANSI/BIFMA X5.4	Public and Lounge Seating Tests Exclusion: Clause 6 Backrest Strength Test - Vertical – Static Clause 8 Backrest Durability Test - Vertical – Cyclic Clause 12 Arm Durability Test for Multiple Seating Units - Vertical – Cyclic Clause 25 Cycle Test for Recliners - Backrest and/or Legrest Mechanism Durability
ANSI/BIFMA X5.5	Desk & Table Products Tests Exclusion Clause: 20 Tilt-Top Table -- Cycle Test Clause 21 Tilt-Top Table – Latch Strength Test Clause 22 Monitor Arm Strength Test Clause 23 Monitor Arm Cycle Test Clause 24 Monitor Arm Dislodgement Test
ANSI/BIFMA X5.9	Safety, durability, and structural performance of storage units Exclusion: Clause 8.2- Upward Impact Force Disengagement Test for Storage Components Clause 8.3- Upward Force Static Disengagement Test for Storage Components
ANSI/SOHO S6.5	Small Office/Home Office Furniture – Tests American National Standard for Office Furnishings
ASTM B117	Standard Practice for Operating Salt Spray (Fog) Apparatus
ASTM D3359	Standard Test Methods for Rating Adhesion by Tape Test
ASTM D3363	Standard Test Method for Film Hardness by Pencil Test
ASTM F2057	Standard Safety Specification for Clothing Storage Units
ASTM F2179	Standard Specification for Annealed Soda-Lime-Silicate Glass Containers That Are Produced for Use as Candle Containers Exclusion of Clause 4.2 Thermal Shock
ASTM F2417	Standard Specification for Fire Safety for Candles
ASTM F2601	Standard Specification for Fire Safety for Candle Accessories
ASTM F3096	Standard Performance Specification for Tip over Restraint(s) Used with Clothing Storage Unit(s)
BS 5852 Part 1	Fire tests for furniture Methods of test for the ignitability by smokers' materials of upholstered composites for seating

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BS 5852 Part 2	Fire Tests for Furniture Part 2: Methods of Test for the Ignitability of Upholstered Composites for Seating by Flaming Sources
BS EN 581-1	Outdoor furniture. Seating and tables for camping, domestic and contract use General safety requirements
BS EN 581-2	Outdoor furniture. Seating and tables for camping, domestic and contract use Mechanical safety requirements and test methods for seating
BS EN 581-3	Outdoor furniture. Seating and tables for camping, domestic and contract use Mechanical safety requirements for tables
BS EN 1022	Domestic furniture - Seating - Determination of stability
BS EN 1183	Materials and articles in contact with foodstuffs. Test methods for thermal shock and thermal shock endurance Exclusion- Method A
BS EN 1335-2	Office furniture. Office work chair Safety requirements
BS EN 1335-3	Office furniture - Office work chair - Part 3: Test methods Exclusion: Clause- 7.2.5 Arm rest sideways static load test
BS EN 1725	Domestic furniture. Beds and mattresses. Safety requirements and test methods
BS EN 1728	Furniture. Seating. Test methods for the determination of strength and durability
BS EN 1730	Furniture. Tables. Test methods for the determination of stability, strength and durability
BS EN 1957	Furniture. Beds and mattresses. Test methods for the determination of functional characteristics and assessment criteria
BS EN 12520	Furniture. Strength, durability and safety. Requirements for domestic seating
BS EN 12521	Furniture. Strength, durability and safety. Requirements for domestic tables
BS EN 12983-1	Cookware - Domestic cookware for use on top of a stove, cooker or hob - Part 1: General requirements
BS EN 12983-2	Cookware —Domestic cookware for use on top of a stove, cooker or hob — Part 2: Further general requirements and specific requirements for ceramic, glass and glass ceramic cookware Only following clauses: Clause 5.2 Endurance on non-stick coating
BS EN 14073-2	Office furniture - Storage furniture - Part 2: Safety requirements
BS EN 14073-3	Office furniture. Storage furniture Test methods for the determination of stability and strength of the structure
BS EN 14074	Office furniture. Tables and desks and storage furniture. Test methods for the determination of strength and durability of moving parts
BS EN 14749	Furniture — Domestic and kitchen storage units and kitchen-worktops — Safety requirements and test methods Exclusion:

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	Clause 5.4.3- Additional stability requirement for TV Furniture
BS EN 15372	Furniture. Strength, durability and safety. Requirements for non-domestic tables
BS EN 15426	Candles. Specification for sooting behaviour
BS EN 15493	Candles- Specification for fire safety
BS EN 15494	Candles- Product safety labels
BS EN 16139	Furniture. Strength, durability and safety. Requirements for non-domestic seating
BS EN ISO 8442-1	Materials and articles in contact with foodstuffs. Cutlery and table holloware Requirements for cutlery for the preparation of food Only following clause: Clause 6.1 Corrosion resistance
BS EN ISO 8442-2	Materials and articles in contact with foodstuffs. Cutlery and table holloware Requirements for stainless steel and silver-plated cutlery Inclusion: Clause 5: Construction Clause 7.1: Resistance to Corrosion Clause 7.2.2: Strength
EN 12546-1	Materials and articles in contact with foodstuffs - Insulated containers for domestic use - Part 1: Specification for vacuum ware, insulated flasks and jugs
EN 12546-2	Materials and articles in contact with foodstuffs - Insulated containers for domestic use - Part 2: Specification for insulated bags and boxes
EN 13834	Cookware - Ovenware for use in traditional domestic ovens Excluding Clause 6.1.3 and Clause 8
EN 15284	Materials and articles in contact with food stuffs - Test method for the resistance to microwave heating of ceramic, glass, glass-ceramic or plastics cookware
IS 17631	Work Chairs - Specification
IS 17632	General Purpose Chairs and Stools - Specification
IS 17633	Tables and Desks - Specification
IS 17634	Storage Units - Specification
IS 17635	Wooden beds: Part 1 For use with mattresses Exclusion: Clause 8.1-Mechanisms for Lifting Bed Bases
IS 17636	Bunk Beds – Specification Exclusion: Clause 7.5 Ladder
IS 17637	Performance Requirements of Surface Finishes for Furniture Applications Only following clauses: Clause 5: Surface finish performance requirements Clause 6: Adhesive performance requirements

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IS 17638	Assessment of Surface Finish Resistance to Dry Heat — Method of Test
IS 17639	Assessment of Surface Finish Resistance to Wet Heat — Method of Test
IS 17640	Assessment of Surface Resistance to Cold Liquids — Method of Test
IS 17641	Assessment of Surface Finish Resistance to Impact — Method of Test
ISO 9227	Corrosion tests in artificial atmospheres — Salt spray tests Only following clause: 5.2.2 Neutral salt spray (NSS) test
SEFA 8-M	Laboratory Grade Metal Casework Tests
SEFA 8-W	Laboratory Grade Wood Casework
Field of Testing: Mechanical	
Matrix: Jewelry	
16 CFR 1262	Safety Standard for Magnets
Field of Testing: Mechanical	
Matrix: Toys and similar product	
16 CFR 1262	Safety Standard for Magnets
16 CFR 1500.44	Method of determining extremely flammable and flammable solids
16 CFR 1500.48	Technical requirements for determining a sharp point in toys and other articles intended for use by children under 8 years of age.
16 CFR 1500.49	Technical requirements for determining a sharp metal or glass edge in toys and other articles intended for use by children under 8 years of age.
16 CFR 1500.51	Test methods for simulating use and abuse of toys and other articles intended for use by children 18 months of age or less
16 CFR 1500.52	Test methods for simulating use and abuse of toys and other articles intended for use by children over 18 but not over 36 months of age.
16 CFR 1500.53	Test methods for simulating use and abuse of toys and other articles intended for use by children over 36 but not over 96 months of age.
16 CFR 1501	Method for identifying toys and other articles intended for use by children under 3 years of age which present choking, aspiration, or ingestion hazards because of small parts
16 CFR 1510	Requirements of rattles
16 CFR 1511	Requirements for Pacifiers
AS/NZS 8124.2	Safety of toys Flammability
AS/NZS ISO 8124.1	Safety aspects related to mechanical and physical properties
ASTM F963-17	Standard Consumer Safety Specification for Toy Safety Sections 4.1, 4.2, 4.3, 4.5, 4.6, 4.7, 4.8, 4.9, 4.10, 4.11, 4.12, 4.13, 4.14, 4.15, 4.16, 4.17, 4.18, 4.19, 4.20.2, 4.21, 4.22, 4.23, 4.24, 4.26, 4.27, 4.28, 4.30, 4.31, 4.32, 4.33, 4.34, 4.35, 4.36, 4.38, 4.39, 4.40, 4.41, 8.5, 8.6, 8.7, 8.8, 8.9, 8.10, 8.11, 8.12, 8.13, 8.14, 8.15, 8.16, 8.20, 8.21, 8.22, 8.23, 8.25, 8.26, 8.27, 8.28, 8.29, 8.30 only

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BS 7272 Part 1	Writing and marking instruments Specification for caps to reduce the risk of asphyxiation
BS 7272 Part 2	Writing and marking instruments - Part 2: Specification for end closures to reduce the risk of asphyxiation
BS EN 71-1	Safety of toys - Part 1: Mechanical and physical properties Exclusion: 8.26: Brake performance 8.28.2.4: Toys with earphones and headphones 8.28.2.8: Percussion toys 8.28.2.10: Cap-firing toys
BS EN 71-2	Safety of toys Flammability
EN 71-1	Safety of toys - Part 1: Mechanical and physical properties Exclusion: 8.26: Brake performance 8.28.2.4: Toys with earphones and headphones 8.28.2.8: Percussion toys 8.28.2.10: Cap-firing toys
EN 71-2	Safety of toys Flammability
IS 9873-1	SAFETY aspect related to mechanical and physical properties
IS 9873-2	Safety Of Toys Part 2 Flammability
IS 9873-4	Safety of Toys Part 4 Swings, Slides and Similar Activity Toys for Indoor and Outdoor Family Domestic Use Only Following Clauses: Clause 4.1.1 Static strength Clause 4.1.3 Corners and edges Clause 4.1.2 Maximum height Clause 4.1.4 Protruding parts Clause 4.1.5 Climbing and swinging ropes, chains and cables Clause 4.1.6 Open tubing Clause 4.3 Rung ladders, stepladders and stairways Clause 4.4.1 Head and Neck entrapment Clause 4.5 Stability of activity toys other than slides, swings and toys with crossbeams Clause 4.6 Slides Clause 4.8 Seesaws Clause 4.9 Carousels and rocking toys Clause 4.10 Inflatable activity toys Clause 4.11 Paddling pools with inflatable walls Clause 5 Warnings and labelling
ISO 8124-1	Safety aspects related to mechanical and physical properties
ISO 8124-2	Safety of toys — Part 2: Flammability
SOR/2011-17	Toys Regulations Exclusion: 5: Electrically operated toys 6: Electrically heated toys 38: TOY STEAM ENGINES

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	43: BATTERY
Field of Testing: CHEMICAL	
Matrix: Toys and Similar Products	
AATCC TM81	Test Method for pH of the Water-Extract from Wet Processed Textiles
BS EN ISO 3071	Textiles. Determination of pH of aqueous extract
BS EN ISO 14184-1	Textiles. Determination of formaldehyde Free and hydrolised formaldehyde (water extraction method)
BS EN ISO 14184-2	Textiles. Determination of formaldehyde Released formaldehyde (vapour absorption method)
EN ISO 3071	Textiles. Determination of pH of aqueous extract
ISO 3071	Textiles. Determination of pH of aqueous extract
Field of Testing: CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	
Matrix: Electrical & Electronic product contain chemical, polymer & metal under ROHS regulation	
IEC 62321- 4	Determination of certain substances in electro-technical products -part-4: Mercury in polymers, metals and electronics by ICP-OES and ICP-MS. Test Parameter: Mercury Quantification by ICP-OES and ICP-MS.
IEC 62321-5	Determination of certain substances in electro-technical products -part-5: Cadmium Lead and Chromium in polymers and electronics and cadmium and lead in metals by ICP-OES and ICP-MS. Test Parameters: Lead, Cadmium & Chromium Quantification by ICP-OES and ICP-MS.
IEC 62321-6	Determination of certain substances in electrotechnical products - Part 6: Polybrominated biphenyls and polybrominated diphenyl ethers in polymers by gas chromatography-mass spectrometry (GC-MS) Test Parameters: Polybrominated biphenyls and polybrominated diphenyl ethers
IEC 62321-7-1	Determination of certain substances in electrotechnical products – Part 7-1: Hexavalent chromium – Presence of hexavalent chromium (Cr (VI)) in colourless and coloured corrosion-protected coatings on metals by the colorimetric method Test Parameters: Hexavalent chromium (Cr (VI))
IEC 62321-7-2	Determination of certain substances in electrotechnical products - Part 7-2: Hexavalent chromium - Determination of hexavalent chromium (Cr (VI)) in polymers and electronics by the colorimetric method Test Parameters: Hexavalent chromium (Cr (VI))
IEC 62321-8	Determination of certain substances in electrotechnical products - Part 8: Phthalates in polymers by gas chromatography-mass spectrometry (GC-MS). Gas chromatography-mass spectrometry using a pyrolyzer/ thermal desorption accessory (Py-TD-GC-MS). Test Parameters:

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	<p>Bis(2-Ethylhexyl) phthalate (DEHP), Benzyl butyl phthalate (BBP), Dibutyl phthalate (DBP), Di isobutyl phthalate (DIBP), Di-isononyl phthalate (DINP) and Di-iso-decyl phthalate (DIDP), Di-nonyl phthalates (DNOP)</p> <p>Inclusion: Quantification is done using GC-MS, as specified in the standard.</p>
IS 16197 (Part 4): 2014 (Reaffirmed 2019)	<p>Determination of certain substances in electro-technical products -part-4: Mercury in polymers, metals and electronics by ICP-OES and ICP-MS.</p> <p>Test Parameter: Mercury Quantification by ICP-OES and ICP-MS.</p>
IS 16197 (Part 5): 2014 (Reaffirmed 2019)	<p>Determination of certain substances in electro-technical products -part-5: Cadmium Lead and Chromium in polymers and electronics and cadmium and lead in metals by ICP-OES and ICP-MS.</p> <p>Test Parameters: Lead, Cadmium & Chromium Quantification by ICP-OES and ICP-MS.</p>
IS 16197 (Part 6): 2018	<p>Determination of certain substances in electrotechnical products - Part 6: Polybrominated biphenyls and polybrominated diphenyl ethers in polymers by gas chromatography-mass spectrometry (GC-MS)</p> <p>Test Parameters: Polybrominated biphenyls and polybrominated diphenyl ethers</p>
IS 16197 (Part 7/Sec 1): 2018	<p>Determination of certain substances in electrotechnical products – Part 7-1: Hexavalent chromium – Presence of hexavalent chromium (Cr (VI)) in colourless and coloured corrosion-protected coatings on metals by the colorimetric method</p> <p>Test Parameters: Hexavalent chromium (Cr (VI))</p>
IS 16197 (Part 7/Sec 2): 2020	<p>Determination of certain substances in electrotechnical products - Part 7-2: Hexavalent chromium - Determination of hexavalent chromium (Cr (VI)) in polymers and electronics by the colorimetric method</p> <p>Test Parameters: Hexavalent chromium (Cr (VI))</p>
IS 16197 (Part 8): 2020	<p>Determination of certain substances in electrotechnical products - Part 8: Phthalates in polymers by gas chromatography-mass spectrometry (GC-MS). Gas chromatography-mass spectrometry using a pyrolyzer/ thermal desorption accessory (Py-TD-GC-MS).</p> <p>Test Parameters: Bis(2-Ethylhexyl) phthalate (DEHP), Benzyl butyl phthalate (BBP), Dibutyl phthalate (DBP), Di isobutyl phthalate (DIBP), Di-isononyl phthalate (DINP) and Di-iso-decyl phthalate (DIDP), Di-nonyl phthalates (DNOP)</p> <p>Inclusion: Quantification is done using GC-MS, as specified in the standard.</p>
<p>Field of Testing: CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS Matrix: Toy and Toy products (Paints, varnishes, Lacquers, printing inks, polymers, foams, Textiles, Paper, paper board, Glass, Ceramic, metallic materials, wood, fiber board, hard board, leather, colored solids, chalk, crayons, pliable modeling materials, Clays, plasters, slimes, liquids, Finger paints, Elastomers, Finger paints adhesive tattoos)</p>	
AS/NZS ISO 8124.3	<p>Safety of toys - Migration of certain elements</p> <p>Test Parameters:</p>

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	Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium
ASTM F963-17	<p>Standard Consumer Safety Specification for Toy Safety</p> <p>Test Parameters: Section: 4.3.5.1 Heavy Element Content in Toys paint and similar surface coating Materials (Barium, Antimony, Arsenic, Cadmium, Chromium, Lead, Mercury, Selenium) Section: 4.3.5.2 Heavy Element Content in Toys substrate Materials (Barium, Antimony, Arsenic, Cadmium, Chromium, Lead, Mercury, Selenium) Section: 8.3 Heavy Element Content in Toys, Toy components and Materials (Barium, Antimony, Arsenic, Cadmium, Chromium, Lead, Mercury, Selenium) Quantification by ICP-OES and ICP-MS</p>
BS EN 71-3	<p>Safety of toys - Part 3: Migration of certain elements</p> <p>Test Parameters: Organic Tin: (Category 1,2 &3) Methyl tin, Dimethyl tin, Butyl tin, Dibutyltin, Tributyltin, Tetrabutyltin, Monoacetylation, Dioctyl tin, Dipropyl tin, Diphenyl tin, Triphenyl tin</p> <p>Migration of Certain Elements: (Category 1,2 &3) Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium (III), Chromium (VI), Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin, Organic tin, Zinc</p>
BS EN 71-9	<p>Safety of toys - Part 9: Organic chemical compounds – Requirements</p> <p>Test Parameters: Flame retardants, Colourants, Primary aromatic amines, Monomers and solvent, Wood Preservative, Preservatives, Plasticisers</p> <p>Flame retardants: Tri-<i>o</i>-cresyl phosphate 78-30-8, Tris(2-chloroethyl) phosphate 115-96-8</p> <p>Colourants: Disperse Blue 1 2475-45-8 Disperse Blue 3 2475-46-9 Disperse Blue 106 12223-01-7 Disperse Blue 124 61951-51-7 Disperse Yellow 3 2832-40-8 Disperse Orange 3 730-40-5 Disperse Orange 37/76 12223-33-5,13301-61-6 Disperse Red 1 2872-52-8 Solvent Yellow 1 60-09-3 Solvent Yellow 2 60-11-7 Solvent Yellow 3 97-56-3 Basic Red 9 569-61-9 Basic Violet 1 8004-87-3 Basic Violet 3 548-62-9 Acid Red 26 3761-53-3 Acid Violet 49 1694-09-3</p> <p>Primary aromatic amines: Benzidine 92-87-5 2-Naphthylamine 91-59-8 4-Chloroaniline 106-47-8</p>

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	<p>3,3'-Dichlorobenzidine 91-94-1 3,3'-Dimethoxybenzidine 119-90-4 3,3'-Dimethylbenzidine 119-93-7 o-Toluidine 95-53-4 2-Methoxyaniline (o-Anisidine) 90-04-0 Aniline 62-53-3</p> <p>Monomers (migration): Acrylamide 79-06-1 Bisphenol A 80-05-7 Formaldehyde 50-00-0 Phenol 108-95-2 Styrene 100-42-5</p> <p>Solvents (migration): Trichloroethylene 79-01-6 Dichloromethane 75-09-2 2-Methoxyethyl acetate 110-49-6 2-Ethoxyethanol 110-80-5 2-Ethoxyethyl acetate 111-15-9 Bis(2-methoxyethyl) ether 111-96-6 2-Methoxypropyl acetate 70657-70-4 3,5,5-Trimethyl-2-cyclohexene-1-one 78-59-1 Toluene 108-88-3 Ethylbenzene 100-41-4 Xylene (all isomers) various</p> <p>Wood preservatives: Outdoor limits: Pentachlorophenol and its salts various Lindane 58-89-9</p> <p>Wood preservatives: Indoor limits: Cyfluthrin 68359-37-5 Deltamethrin 52918-63-5 Permethrin 52645-53-1</p> <p>Preservatives (other than wood preservatives): Phenol 108-95-2 1,2-Benzylisothiazolin-3-one 2634-33-5 2-Methyl-4-isothiazolin-3-one 2682-20-4 Formaldehyde (free) 50-00-0</p> <p>Plasticisers (migration): Triphenyl phosphate 115-86-6 Tri-o-cresyl phosphate 78-30-8 Tri-m-cresyl phosphate 563-04-2 Tri-p-cresyl phosphate 78-32-0</p>
BS EN 71-10	<p>Safety of toys Organic chemical compounds. Sample preparation and extraction Test Parameters: Flame retardants, Colourants, Primary aromatic amines, Monomers and solvent, Wood Preservative, Preservatives, Plasticisers Exclusions: Solvents (inhalation) given in Table 2F - all 10 analytes</p>
BS EN 71-11	<p>Safety of toys Organic chemical compounds. Methods of analysis Test Parameters:</p>

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	<p>Flame retardants, Colourants, Primary aromatic amines, Monomers and solvent, Wood Preservative, Preservatives, Plasticisers</p> <p>Exclusions: Solvents (inhalation) given in Table 2F - all 10 analytes</p>
EN 71-12	<p>Safety of toys - Part 12: N-Nitrosamines and N-nitrosatable substances</p> <p>Test Parameter:</p> <p>N-nitroso diethanolamine (NDELA) N-nitrosodimethylamine 62-75-9 (NDMA) N-nitrosodiethylamine 55-18-5 (NDEA) N-nitrosodipropylamine 621-64-7 (NDPA) N-nitrosodiisopropylamine 601-77-4 (NDiPA) N-nitrosodibutylamine 924-16-3 (NDBA) N-nitrosodiisobutylamine 997-95-5 (NDiBA) N-nitrosodiisononylamine 1207995-62-7 (NDiNA) N-nitrosomorpholine 59-89-2 (NMOR) N-nitrosopiperidine 100-75-4 (NPIP) N-nitrosodibenzylamine 5336-53-8 (NDBzA) N-nitroso-N-methyl-N-phenylamine 614-00-6 (NMPPhA) N-nitroso-N-ethyl-N-phenylamine 612-64-6 (NEPhA)</p>
IS 9873 (Part 3)	<p>Safety requirements for Toys- Part 3: Migration of certain elements</p> <p>Test Parameters: Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium</p>
IS 9873 (Part 6)	<p>Safety of Toys Part 6 Determination of Certain Phthalate Esters in Toys And Children's Products</p> <p>Test Parameters: Benzyl butyl Phthalate, Bis (2-ethylhexyl Phthalates), Di iso Decyl Phthalate, Di iso Nonyl Phthalate, Di-n-Octyl Phthalate, Di n Butyl phthalate</p> <p>Exclusions: Method B</p>
IS 9873 (Part 7)	<p>Safety of Toys- Part 7 Requirements and Test Methods for Finger Paints</p> <p>Test Parameters: Clause 4.2 Colourants Clause 4.4 Migration of certain elements Clause 4.5.1 Primary aromatic amine Clause 4.5.2 Polychlorinated biphenyls, Hexachlorobenzene, Benzo (a) pyrene Clause 4.6 Taste and smell Clause 4.7 pH Clause 4.9 N-nitrosamines Clause 4.10 Container</p>
IS 9873 (Part 9)	<p>Safety of Toys Part 9 Certain Phthalates Esters in Toys and Children's Products</p> <p>Test Parameters: Benzyl butyl Phthalate, Bis (2-ethylhexyl Phthalates), Di iso Decyl Phthalate, Di iso Nonyl Phthalate, Di-n-Octyl Phthalate, Di n Butyl phthalate</p>

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ISO 787-9	General methods of test for pigments and extenders - Part 9: Determination of pH value of an aqueous suspension Test Parameters: pH of accessible liquids
ISO 8124-3	Safety of toys - Part 3: Migration of certain elements Test Parameters: Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium
ISO 8124-6	Safety of toys — Part 6: Certain phthalate esters in toys and children's products Test Parameters: Benzyl butyl Phthalate, Bis (2-ethylhexyl Phthalates), Di iso Decyl Phthalate, Di iso Nonyl Phthalate, Di-n-Octyl Phthalate, Di n Butyl phthalate
ISO 8124-7	Safety of toys — Part 7: Requirements and test methods for finger paints Test Parameters: Annex C: Colorant Annex E (Clause 4.5.2 & A.5): Hexachlorobenzene, Polychlorinated biphenyl, Benzo a pyrene. Clause 4.6 & A.7: Taste and Smell Clause 4.10 & A.10: Label containing warning to parents, Taste, Smell Clause 4.9 & A.9: N- Nitroso diethanolamine (NDELA)
SOP/CH/TM-36	Determination of various flame retardants according to EU Toys regulation and others Test Parameters: Tris(1,3-dichloro-isoprpyl) phosphate, Tris(2-chloro-isoprpyl) phosphate, Tris (2,3-dibromopropyl phosphate), Triphenyl phosphate, Tri-O-tolyl phosphate, 3,3,5,5-Tetrabromobisphenol A, 2,2-Bis(chloromethyl)-1,3-prapanediyl tetrakis(2-chloroethyl) bis(phosphate), 4-tert-butyl phenyl diphenyl phosphate, Bis-(2-tertbutyl-butyl phenyl) phenyl phosphate, Tris (2-chloro ethyl) phosphate
Field of Testing: CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS Matrix: Leather and Leather products (Footwear, Finished leather, Leather accessories, Leather products, Semi-finished leather, Synthetic leather, PU, Textile, print, paint, coating, fur, plastic & other)	
BS EN 16778	Protective gloves-The determination of Dimethylformamide in gloves. Test Parameter: Dimethylformamide
BS EN ISO 4048	Leather - Chemical tests - Determination of matter soluble in dichloromethane and free fatty acid content Test Parameter: Fat content Extraction by Soxhlet extractor
DIN EN ISO 13365	Leather –Chemical tests –Determination of the preservative (TCMTB, PCMC, OPP, OIT) content in leather by liquid chromatography Test Parameters: 2-(thiocyanomethylthio)-benzothiazole (TCMTB), 4-chloro-3-methylphenol (PCMC), 2-phenylphenol (OPP), 2-octylisothiazol-3(2H)-one (OIT)

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DIN EN ISO 17070	<p>Leather-Chemical Tests-Determination of tetra chlorophenol-, trichlorophenol-, Dichlorophenol, monochlorophenol- isomers and pentachlorophenol content</p> <p>Test Parameters: 2-chlorophenol,3-chlorophenol,4-chlorophenol,2,3-Dichlorophenol, 2,4-Dichlorophenol, 2,5-Dichlorophenol, 2,6-Dichlorophenol,3,4-Dichlorophenol,3,5-Dichlorophenol,2,3,4-Trichlorophenol, 2,3,5-Trichlorophenol, 2,3,6Trichlorophenol, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 3,4,5-Trichlorophenol,2,3,4,5 Tetra chlorophenol, 2,3,4,6-Tetrachlorophenol, 2,3,5,6-Tetrachlorophenol, Pentachlorophenol</p>
DIN EN ISO 18219-1	<p>Leather –Determination of chlorinated hydrocarbons in leather –Part 1: Chromatographic method for short chain chlorinated paraffins</p> <p>Test Parameter: Short chain chlorinated paraffins (SCCPs) Quantification by GC-ECNI-MS</p>
DIN EN ISO 18219-2	<p>Leather –Determination of chlorinated hydrocarbons in leather –Part 2: Chromatographic method for middle chain chlorinated paraffins</p> <p>Test Parameter: Middle chain chlorinated paraffins (MCCPs) Quantification by GC-ECNI-MS</p>
EN ISO 10195	<p>Leather — Chemical determination of chromium (VI) content in leather — Thermal pre-ageing of leather and determination of hexavalent chromium</p> <p>Test Parameters: Chromium (VI) content</p>
EN ISO 17072-2	<p>Leather-Chemical determination of metal content-part 2: Total metal content</p> <p>Test Parameters: Aluminum, Antimony, Arsenic, Barium, Calcium, Chromium (except chromium tanned leather), Cobalt, copper, Iron, Magnesium, Mercury, Molybdenum, Lead, Cadmium, Nickel, Potassium, Selenium, Silicon, Sodium, Tin, Titanium, Zinc, Zirconium, Nickel Quantification by ICP-OES and ICP-MS</p>
GB/T 19941.1	<p>Leather and fur - Determination of formaldehyde content - Part 1: High performance liquid chromatography method</p> <p>Test Parameter: Formaldehyde</p>
GB/T 19942	<p>Leather and fur -- Chemical tests -- Determination of banned azo colorants</p> <p>Test Parameters: 2,4 -Xylidine, 2 – Naphthylamine, 4,4-Diamino- diphenylmethane, Benzidine, o- Amino azo toluene, o- Anisidine, o- Toluidine, p- Amino azo benzene, p- chloroaniline, p- kresidine, 2 - Amino-4-nitrotoluene, 2,4-Diamino anisole, 2,4,5- Trimethylaniline, 2,6-Xylidine, 3,3- Dichlorobenzidine, 3,3- Dimethoxy benzidine, 3,3- Dimethyl-4,4- diamino-diphenylmethane, 3,3- Dimethyl benzidine, 4 – Aminobiphenyl, 4 - Chloro-o-toluidine, 4,4-Oxydianiline, ,4- Methylene-bis-(2- chloroaniline), ,4,4- Thiodianiline,2,4 Toluene diamine Quantification by GC-MS and HPLC-DAD.</p>

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ISO 4045	Leather- Chemical tests - Determination of pH and difference figure Test Parameter: pH and difference figure
ISO 17075-1	Leather — Chemical determination of chromium (VI) content in leather —Part 1: Colorimetric method Test Parameter: Chromium VI
ISO 17075-2	Leather — Chemical determination of chromium (VI) content in leather — Part 2: Chromatographic method Test Parameter: Chromium VI
ISO 17226-1	Leather — Chemical determination of formaldehyde content - Part 1: Method using high-performance liquid chromatography Test Parameter: Formaldehyde
ISO 17234-1	Leather — Chemical tests for the determination of certain azo colourants in dyed leathers — Part 1: Determination of certain aromatic amines derived from azo colourants Test Parameters: 2,4 -Xylidine, 2- Naphthylamine, 4,4-Diamino- diphenylmethane, Benzidine, o- Amino azo toluene, o- Anisidine, o- Toluidine, p- Amino azo benzene, p- chloroaniline, p- kresidine, 2 - Amino-4-nitrotoluene, 2,4-Diamino anisole, 2,4,5- Trimethylaniline, 2,6-Xylidine, 3,3- Dichlorobenzidine, 3,3- Dimethoxy benzidine, 3,3- Dimethyl-4,4- diamino- diphenylmethane, 3,3- Dimethyl benzidine, 4 – Aminobiphenyl, 4 - Chloro-o-toluidine, 4,4-Oxydianiline, ,4- Methylene-bis-(2- chloroaniline), ,4,4- Thiodianiline,2,4 Toluene diamine
ISO 17234-2	Leather - Chemical tests for the determination of certain azo colorants in dyed leathers - Part 2: Determination of 4-aminoazobenzene Test Parameters: 4-aminoazobenzene Quantification by GC-MS and HPLC-DAD.
ISO 18218-1	Leather - Determination of ethoxylated alkylphenols - Part 1: Direct method Test Parameters: Nonylphenol ethoxylate, Octylphenol ethoxylate
ISO/TS 16179	Footwear — Critical substances potentially present in footwear and footwear components — Determination of organotin compounds in footwear materials Test Parameters: n-butyl tin, n-octyl tin, Di-n-butyl tin, Di-n-octyl tin, Tri-n-butyl tin, Triphenyl tin, Tricyclohexyltin, Tetra-n-butyl tin
ISO/TS 16186	Footwear — Critical substances potentially present in footwear and footwear components — Test method to quantitatively determine dimethyl fumarate (DMFU) in footwear materials Test Parameter: Dimethyl fumarate (DMFU)
ISO/TS 16189	Footwear — Critical substances potentially present in footwear and footwear components — Test method to quantitatively determine dimethylformamide in footwear materials Test Parameters: Dimethyl formamide

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ISO/TS 16190	<p>Footwear — Critical substances potentially present in footwear and footwear components — Test method to quantitatively determine polycyclic aromatic hydrocarbons (PAH) in footwear materials</p> <p>Test Parameters: Naphthalene, Acenaphthylene, Acenaphthene, Fluorene, Anthracene, Phenanthrene, Fluoranthene, Pyrene, 1-methylpyrene, Cyclopenta (c, d) pyrene, Benzo[a]anthracene, Chrysene, Benzo[b]fluoranthene, Benzo[j]fluoranthene, Benzo(k)fluoranthene, Benzo[a]pyrene, Benzo[e]pyrene, Benzo[ghi]perylene, Indeno[1,2,3-cd] pyrene, Dibenzo (a, h) anthracene, Dibenzo [a, l] pyrene, Dibenzo [a, e] pyrene, Dibenzo [a, i] pyrene, Dibenzo [a, h] pyrene</p>
LFGB §64 B 82.02.8	<p>Analysis of consumer goods - Detection and determination of pentachlorophenol in consumer goods, especially leather and textiles</p> <p>Test Parameters: Pentachlorophenol, 2,3,4,5-Tetrachlorophenol, 2,3,4,6- Tetra chlorophenol, 2,3,5,6- Tetra chlorophenol, 2,3,5- Trichlorophenol, 2,3,6- Trichlorophenol, 2,4,6- Trichlorophenol, 3,4,5- Trichlorophenol, o- phenyl phenol,</p>
LFGB §64 B 82.02.9	<p>Analysis of consumer goods - Determination of certain azo dyes in dyed leather - Part 2: Determination of 4-aminoazobenzene</p> <p>Test Parameter: 4-aminoazobenzene Quantification by GC-MS and HPLC-DAD</p>
LFGB §64 B82.02-3	<p>Leather - chemical tests for the determination of certain colorants in dyed leathers</p> <p>Test Parameters: 2,4 -Xylidine, 2 – Naphthylamine, 4,4-Diamino- diphenylmethane, Benzidine, o- Amino azo toluene, o- Anisidine, o- Toluidine, p- Amino azo benzene, p- chloroaniline, p- kresidine, 2 - Amino-4-nitrotoluene, 2,4-Diamino anisole, 2,4,5- Trimethylaniline, 2,6-Xylidine, 3,3- Dichlorobenzidine, 3,3- Dimethoxy benzidine, 3,3- Dimethyl-4,4- diamino- diphenylmethane, 3,3- Dimethyl benzidine, 4 – Aminobiphenyl, 4 - Chloro-o-toluidine, 4,4-Oxydianiline, ,4-Methylene-bis-(2- chloroaniline), ,4,4- Thiodianiline, 2,4 Toluene diamine Quantification by GC-MS and HPLC-DAD.</p>
SOP/CH/TM-30	<p>Determination of Alkylphenol ethoxylates (APEOs) and Alkyl phenol (APs) in Textile, Leather & Plastic Samples.</p> <p>Test Parameters: Nonyl phenol, Octyl phenol, Nonyl phenol ethoxylate, Octyl phenol ethoxylate</p>
<p>Field of Testing: CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS Matrix: Textile and Textile products (Prints, paint, coating, plastic, textile Accessories)</p>	
AfPS GS 2019.01 PAK	<p>Testing and assessment of Polycyclic Aromatic Hydrocarbons (PAHs) in the awarding of GS Marks</p> <p>Test Parameters: Naphthalene, Indeno (1,2,3-cd) pyrene, Phenanthrene, Pyrene, Anthracene, Benzo (b) fluoranthene, Benzo (g, h, i) perylene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(e)pyrene, Benzo(j)fluoranthene, Benzo(k)fluoranthene, Chrysene, Fluoranthene, Dibenzo (a, h) anthracene</p>

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BS EN 16711-3	Textiles - Determination of metal content - Part 3: Determination of lead release by artificial saliva solution Test Parameters: Lead
BS EN 17130	Textiles and textile products. Determination of dimethyl fumarate (DMFu), method using gas chromatography Test Parameter: Dimethyl fumarate
BS EN 17131	Textiles and textile products - Determination of dimethylformamide (DMF), method using gas chromatography. Test Parameter: Dimethyl formamide
BS EN 17132	Textiles and textile products. Determination of Polycyclic Aromatic Hydrocarbons (PAH), method using gas chromatography Test Parameters: Naphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo[a]anthracene, Benzo[e]pyrene, Benzo[j]fluoranthene, Chrysene, Benzo[b]fluoranthene, Benzo[k]fluoranthene, Benzo[a]pyrene, Indeno[1,2,3-cd] pyrene, Dibenzo [a, h] anthracene
BS EN 17132	Textiles and textile products. Determination of Polycyclic Aromatic Hydrocarbons (PAH), method using gas chromatography. Test Parameters: Benzo[e]pyrene, Benzo[j]fluoranthene, Benzo[a]pyrene, Benz[a]anthracene, Benzo(b)fluoranthene, Benzo[k]fluoranthene, Chrysene, Dibenzo [a, h] anthracene, Acenaphthene, Acenaphthylene, Anthracene, Benzo[ghi]perylene, Fluoranthene, Fluorene, Indeno[1,2,3-cd]pyrene, Naphthalene, Phenanthrene & Pyrene
BS EN ISO 17137	Textiles - Determination of the content of compounds based on chlorobenzenes and chlorotoluenes Test Parameters: 2-Chlorotoluene ,3-Chlorotoluene ,4-Chlorotoluene ,2,3-Dichlorotoluene,2,4-Dichlorotoluene, 2,5-Dichlorotoluene, 2,6-Dichlorotoluene,3,4-Dichlorotoluene,2,3,6-Trichlorotoluene ,2,4,5-Trichlorotoluene, Pentachloro toluene ,1,2-Dichlorobenzene ,1,3-Dichlorobenzene,1,4-Dichlorobenzene ,1,2,3-Trichlorobenzene ,1,2,4-Trichlorobenzene,1,3,5-Trichlorobenzene ,1,2,3,4-Tetrachlorobenzene, 1,2,3,5 Tetra chlorobenzene ,1,2,4,5-Tetrachlorobenzene, Pentachloro benzene, Hexachlorobenzene
BS EN ISO 22744-1	Textiles and textile products — Determination of organotin compounds — Part 1: Derivatisation method using gas chromatography Test Parameters: Methyl tin, n-Butyl tin, n-Octyl tin, Phenyl tin, Dimethyl tin, Di-n-propyl tin, Di-n-butyl tin, Di-n-octyl tin, Diphenyl tin, Trimethyl tin, Tri-n-propyl tin, Tri-n-butyl tin, Tri-n-octyl tin, Triphenyl tin, Tricyclohexyltin, Tetra-n-ethyl tin, Tetra-n-butyl tin
CEN/TS 15968	Determination of extractable perfluorooctanesulphonate (PFOS) in coated and impregnated solid articles, liquids and firefighting foams - Method for sampling, extraction and analysis by LC-qMS or LC-tandem/MS

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	<p>Test Parameters: PFOS, PFOSA, N-Me-FOSA, N-Et-FOSA, N-Me-FOSE alcohol and N-Et-FOSE alcohol Quantification by HPLC-MS-MS.</p>
CPSC-CH-C1001-09.4	<p>Standard Operating Procedure for Determination of Phthalates Test Parameters: Dibutyl Phthalate, Di isobutyl phthalate, Di-n-pentyl phthalate, Di-n-hexyl phthalate, Di cyclohexyl phthalate, Di(2-ethylhexyl) phthalate, Benzyl Butyl Phthalate, 1,2-Benzenedicarboxylicacid, 1,2-diisononyl,1,2-Benzenedicarboxylicacid, di-C8-10 branched alkyl esters, Di-n-octyl phthalate</p>
DIN 50009	<p>Textiles - Determination of tetra chlorophenol-, trichlorophenol-, dichlorophenol-, mono chlorophenol-isomers and pentachlorophenol content Test Parameters: 3,4,5- Trichlorophenol, 2- chlorophenol, 3- chlorophenol, 4- chlorophenol, 2, 3 – Di chlorophenol, 2, 4 – Di chlorophenol, 2, 5 – Di chlorophenol, 2, 6 – Di chlorophenol, 3, 4 – Di chlorophenol, 3, 5 – Di chlorophenol, 2,3,6- Tri chloro phenol, 2,4,6- Tri chloro phenol, 2,3,4- Tri chloro phenol, 2,4,5- Tri chloro phenol, 2,3,5- Tri chloro phenol, 2,3,4,5-Tetra chloro phenol, 2,3,5,6-Tetra chloro phenol, 2,3,4,6-Tetra chloro phenol, Penta chloro phenol</p>
DIN 54231	<p>Textiles - Detection of disperse dyestuffs Test Parameters: Disperse blue 3, Disperse blue 35, Disperse blue 1, Disperse blue 106, Disperse blue 124, Disperse orange 3, Disperse yellow 3, Disperse orange-37/76/59, Disperse red 1 Quantification by HPLC-MS-MS.</p>
DIN EN 16711-1	<p>Textiles –Determination of metal content –Part 1: Determination of metals using microwave digestion Test Parameters: Antimony, Arsenic, Lead, Cadmium, Chromium, Mercury, Copper, Nickel & Cobalt</p>
DIN EN 16711-2	<p>Textiles - Determination of metal content - Part 2: Determination of metals extracted by acidic artificial perspiration solution Test Parameters: Antimony, Arsenic, Cadmium, Chromium, Cobalt, Copper, Lead, Mercury, Nickel</p>
DIN EN ISO 16373- 2	<p>Textiles – Dyestuffs - Part 2: General method for the determination of extractable dyestuffs including allergenic and carcinogenic dyestuffs (method using pyridine-water). Test Parameters: Disperse blue-106, Disperse orange-37, Disperse blue-124, Disperse orange-1, Disperse orange11, Basic violet-14, Acid red – 26, Basic red- 9, Disperse blue-102, Disperse blue-7, Disperse blue-3, Disperse orange -3, Disperse yellow-1, Disperse orange149, Disperse yellow-3, Disperse red- 17, Disperse red- 1, Disperse red-11, Disperse yellow-23, Direct blue 6, Disperse yellow-39, Disperse brown-1, Disperse blue -35, Disperse blue -1, Disperse blue-26, Disperse yellow-9, Disperse yellow-49, Direct Black-38, Direct red-28, Solvent yellow-2, Navy blue, Solvent yellow -1 & Solvent yellow -3</p>

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DIN EN ISO 17881-2	<p>Textiles –Determination of certain flame retardants –Part 2: Phosphorus flame retardants</p> <p>Test Parameters: Tris (2,3-dibromopropyl) phosphate, Tris (1-aziridiny) phosphine oxide, Tris (2-chloroethyl) phosphate</p>
EN 14372	<p>Child use and care articles - Cutlery and feeding utensils -Safety requirements and tests</p> <p>Clause 5.4.2.3: Phthalate Content Clause 6.3.2: Determination of Phthalate Content</p> <p>Test Parameters: Di-butyl phthalate, Butyl benzyl phthalate, Di-iso-decyl phthalate, Di-n-octyl phthalate, Bis-(2- ethylhexyl) phthalate, Di iso nonyl phthalate</p>
EN ISO 14362-1	<p>Textiles — Methods for determination of certain aromatic amines derived from azo colorants — Part 1: Detection of the use of certain azo colorants accessible with and without extracting the fibres</p> <p>Test Parameters: 2,4 -Xylidine, 2 – Naphthylamine, 4,4-Diamino- diphenylmethane, Benzidine, o- Amino azo toluene, o- Anisidine, o- Toluidine, p- Amino azo benzene, p- chloroaniline, p- kresidine, 2 - Amino-4-nitrotoluene, 2,4-Diamino anisole, 2,4,5- Trimethylaniline, 2,6-Xylidine, 3,3- Dichlorobenzidine, 3,3- Dimethoxy benzidine, 3,3- Dimethyl-4,4- diamino-diphenylmethane, 3,3- Dimethyl benzidine, 4 – Aminobiphenyl,4 - Chloro-o-toluidine, 4,4-Oxydianiline, ,4- Methylene-bis-(2- chloroaniline), 4,4- Thiodianiline,2,4 Toluene diamine Quantification by GC-MS and HPLC-DAD.</p>
EN ISO 14362-3	<p>Textiles — Methods for determination of certain aromatic amines derived from azo colorants — Part 3: Detection of the use of certain azo colorants, which may release 4-aminoazobenzene</p> <p>Test Parameter: 4-aminoazobenzene Quantification by GC-MS and HPLC-DAD.</p>
GB/T 17592	<p>Textiles -- Determination of the banned azo colorant</p> <p>Test Parameters: 2,4 -Xylidine, 2 – Naphthylamine, 4,4-Diamino- diphenylmethane, Benzidine, o- Amino azo toluene, o- Anisidine, o- Toluidine, p- Amino azo benzene, p- chloroaniline, p- kresidine, 2 - Amino-4-nitrotoluene, 2,4-Diamino anisole, 2,4,5- Trimethylaniline, 2,6-Xylidine, 3,3- Dichlorobenzidine, 3,3- Dimethoxy benzidine, 3,3- Dimethyl-4,4- diamino-diphenylmethane, 3,3- Dimethyl benzidine, 4 – Aminobiphenyl,4 - Chloro-o-toluidine, 4,4-Oxydianiline, 4- Methylene-bis-(2- chloroaniline), 4,4- Thiodianiline, 2,4 Toluene diamine</p>
GB/T 20388	<p>Textiles - Determination of the phthalate content -Tetrahydrofuran method</p> <p>Test Parameters: Di-cyclohexyl phthalate, Di-isononyl phthalate, Di-(2-ethylhexyl) phthalate, Di-n-octyl phthalate, Di-iso-decyl phthalate, Butyl benzyl phthalate, Di-butyl phthalate, Di-iso-butyl phthalate, Di-pentyl phthalate, Di-iso-heptyl phthalate, Di-methoxyethyl phthalate (DMEP)</p>

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GB/T 23344	Textiles - Determination of 4-aminoazobenzene Test Parameter: 4-aminoazobenzene Quantification by GC-MS and HPLC-DAD.
GB/T 30157	Textiles - Determination of total content of lead and cadmium Test Parameter: Lead, Cadmium
IS 15570	Textiles - Method of test - Detection of banned azo colourants in coloured textiles Test Parameters: 2,4 -Xylidine, 2-Naphthylamine, 4,4-Diamino- diphenylmethane, Benzidine, o- Amino azo toluene, o- Anisidine, o- Toluidine, p- Amino azo benzene, p- chloroaniline, p- kresidine, 2 - Amino-4-nitrotoluene, 2,4-Diamino anisole, 2,4,5- Trimethylaniline, 2,6-Xylidine, 3,3- Dichlorobenzidine, 3,3- Dimethoxy benzidine, 3,3- Dimethyl-4,4- diamino-diphenylmethane, 3,3- Dimethyl benzidine, 4 – Aminobiphenyl, 4 - Chloro-o- toluidine, 4,4-Oxydianiline, ,4- Methylene-bis-(2- chloroaniline), ,4,4- Thiodianiline,2,4 Toluene diamine Quantification by GC-MS and HPLC-DAD.
ISO 14389	Textiles — Determination of the phthalate content — Tetrahydrofuran method Test Parameters: Dipentyl phthalate, Di n-Octyl phthalate, Di iso decyl phthalate, Di iso heptyl phthalate, Bis-2- methoxy ethyl phthalate, Di iso nonyl phthalate, Benzyl butyl phthalate, Di Butyl phthalate, Di iso- butyl phthalates, Bis (2 Ethyl hexyl) phthalates, Di-cyclohexyl phthalate
ISO 18254-1	Textiles - Method for the detection and determination of alkylphenol ethoxylates (APEO) - Part 1: Method using HPLC-MS Test Parameters: Octyl phenol ethoxylates, Nonyl phenol ethoxylates
ISO 21084	Textiles - Method for determination of alkylphenols (AP) Test Parameters: 4-n-octyl phenol,4-tert-octyl phenol,4-n-nonyl phenol,4-nonylphenol
ISO 22818	Textiles — Determination of short chain chlorinated paraffins (SCCP) and middle-chain chlorinated paraffins (MCCP) in textile products out of different matrices by use of gas chromatography negative ion chemical ionization mass spectrometry (GC-NCI-MS) Test Parameters: SCCPs, MCCPs
LFGB §64 B 82.02.2	Analysis of consumer goods - Procedure for the determination of certain aromatic amines from azo dyes in textiles - Part 1: Detection of the use of certain azo dyes with and without extraction of the fibers Test Parameters: 2,4 -Xylidine, 2 – Naphthylamine, 4,4-Diamino- diphenylmethane, Benzidine, o- Amino azo toluene, o- Anisidine, o- Toluidine, p- Amino azo benzene, p- chloroaniline, p- kresidine, 2 - Amino-4-nitrotoluene, 2,4-Diamino anisole, 2,4,5- Trimethylaniline, 2,6-Xylidine, 3,3- Dichlorobenzidine, 3,3- Dimethoxy benzidine, 3,3- Dimethyl-4,4- diamino-diphenylmethane, 3,3- Dimethyl benzidine,

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	4 – Aminobiphenyl, 4 - Chloro-o-toluidine, 4,4-Oxydianiline, 4- Methylene-bis-(2- chloroaniline), 4,4- Thiodianiline, 2,4 Toluene diamine Quantification by GC-MS and HPLC-DAD.
LFGB §64 B 82.02.4	Analysis of consumer goods - Procedure for the determination of certain aromatic amines from azo dyes in textiles - Part 2: Proof of use of certain azo dyes by extraction of the fiber Test Parameters: 2,4 -Xylidine, 2 – Naphthylamine, 4,4-Diamino- diphenylmethane, Benzidine, o- Amino azo toluene, o- Anisidine, o- Toluidine, p- Amino azo benzene, p- chloroaniline, p- kresidine, 2 - Amino-4-nitrotoluene, 2,4-Diamino anisole, 2,4,5- Trimethylaniline, 2,6-Xylidine, 3,3- Dichlorobenzidine, 3,3- Dimethoxy benzidine, 3,3- Dimethyl-4,4- diamino-diphenylmethane, 3,3- Dimethyl benzidine, 4 – Aminobiphenyl, 4 - Chloro-o-toluidine, 4,4-Oxydianiline, 4- Methylene-bis-(2- chloroaniline), 4,4- Thiodianiline, 2,4 Toluene diamine
LFGB §64 B 82.02.8	Analysis of consumer goods - Detection and determination of pentachlorophenol in consumer goods, especially leather and textiles Test Parameters: Pentachlorophenol, 2,3,4,5-Tetrachlorophenol, 2,3,4,6- Tetra chlorophenol, 2,3,5,6- Tetra chlorophenol, 2,3,5- Trichlorophenol, 2,3,6- Trichlorophenol, 2,4,6-Trichlorophenol, 3,4,5- Trichlorophenol, o- phenyl phenol
SOP/CH/TM-14	Determination of Navy Blue (Blue colorant) in textile samples Test Parameter: Navy Blue
SOP/CH/TM-27	Determination of the Organotin compounds in textiles/ rubber / plastic and leather Test Parameters: Mono butyl tin, Di-n- butyl tin, Tri butyl tin, Tetra butyl tin, Mono octyl tin, Di octyl tin, Tri phenyl tin, Tricyclo hexyl tin
SOP/CH/TM-29	Determination of the Disperse dyes & Carcinogens dyestuff in Textile samples. Test Parameters: Disperse blue 1, Disperse blue 7, Disperse blue 3, Disperse red 11, Disperse blue 102, Disperse yellow 1, Disperse yellow 9, Disperse red 17, Disperse blue 106, Disperse orange 3, Disperse yellow 3, Disperse yellow 39, Disperse red 1, Disperse blue 35, Disperse blue 26, Disperse yellow 49, Disperse blue 124, Disperse orange 37, Disperse orange 1, Disperse orange 11, Disperse brown 1, Disperse yellow 23, Disperse orange 149, Solvent yellow 1, Solvent yellow 2, Solvent yellow 3, Acid violet 49, Solvent red 23, Basic red 9, Acid red 26, Direct Red 28, Disperse yellow 3, Disperse Blue 1, Navy Blue, Basic violet 14, Disperse orange 11, Direct Blue 6, Direct Black 38, Basic violet 1, Basic violet 3, Acid Red 14, Basic Red 46, Solvent Blue 4, Naphthol Quinoline
SOP/CH/TM-30	Determination of Alkylphenol ethoxylates (APEOs) and Alkyl phenol (APs) in Textile, Leather & Plastic Samples. Test Parameters: Nonyl phenol, Octyl phenol, Nonyl phenol ethoxylate, Octyl phenol ethoxylate

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SOP/CH/TM-37	Determination of Per fluorinated carbons (PFC's) Test Parameters: Perfluoro butanoic acid, Perfluoro pentanoic acid, Perfluoro hexanoic acid, Perfluoro octanoic acid, Perfluoro nonanoic acid, Perfluoro decanoic acid, Perfluoro undecanoic acid, Perfluoro butane sulfonic acid, Perfluoro octane sulfonic acid, Perfluoro decan sulfonic acid, N-Methyl-Perfluoro octane sulphonamide ethanol, 2H,2H,3H,3H-Perfluoroundecanoic acid, 7H-Dodecafluoro heptane carboxylate
SOP/CH/TM-44	Determination of the several Bisphenols in Plastic, textile and coating samples Test Parameter: Bisphenol A, Bisphenol F, Bisphenol B, Bisphenol S., Bisphenol AF
Field of Testing: CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS Matrix: Metal, Metallic materials, Jewelry, Coated adornment	
BS EN 1811	Reference test method for release of nickel from all post assemblies which are inserted into pierced parts of the human body and articles intended to come into direct and prolonged contact with the skin Test Parameter: Nickel release
CPSC-CH-E-1001- 08.3	Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry) Test Parameter: Lead
CPSC-CH-E1004-11	Standard Operating Procedure for Determining Cadmium (Cd) Extractability from Children's Metal Jewelry Test Parameter: Cadmium
DIN EN 12472	Method for the simulation of accelerated wear and corrosion for the detection of nickel release from coated items Test Parameter: Nickel release
GB/T 19719	Jewelry - Determination of the release of nickel - Method of spectrometry Test Parameter: Nickel Release
GB/T 21198.6	Determination of precious metals in precious metals jewelry alloys - Method using ICP spectrometry - Part 6: Difference method Test Parameter: Arsenic, Mercury
GB/T 28021	Adornment - Determination of baneful elements - Method of spectrometry Test Parameter: Lead, Cadmium, Arsenic, Mercury,
GB/T 28485	Coated adornment - Detection of nickel release - Method for simulation of wear and corrosion Test Parameter:

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	Nickel Release
PD CEN/TR 12471	Screening test for the presence of nickel in articles which are inserted into pierced parts of the human body and articles intended to come into direct and prolonged contact with the skin Test Parameter: Nickel release
SOP/CH/TM-24	Determination of Total Metal contains by Acid Digestion followed by ICP-OES/ICP MS Test Parameters: Lead, Cadmium, Chromium, Mercury, Selenium, Arsenic, Antimony, Barium, Nickel, Tin
SOP/CH/TM-39	Determination of Extractable Metal contains by Artificial Sweat Solution Test Parameters: Antimony, Arsenic, Lead, Cadmium, Total chromium, Cobalt, Copper, Cobalt, Nickel, Mercury
Field of Testing: CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS Matrix: Food Contact Material and allied materials	
84 / 500 / EEC	Analytical method for ceramic articles intended to come into contact with foodstuffs Test Parameter: Leachable Lead, Leachable Cadmium
BS 6748	Specification For Limits of Metal Release from Ceramic Ware, Glassware, Glass Ceramic Ware and Vitreous Enamel Ware Test Parameter: Lead, Cadmium
BS EN 645	Paper and board intended to come into contact with foodstuffs. Preparation of a cold-water extract Test Parameters: Mercury, Cadmium, Lead, Specific migration of formaldehyde
BS EN 647	Paper and board intended to come into contact with foodstuffs. Preparation of a hot water extract Test Parameters: Mercury, Cadmium, Lead, Specific migration of formaldehyde
BS EN 1186-2	Materials and articles in contact with foodstuffs. Plastics Test methods for overall migration in vegetable oils Test Parameters: Overall migration
BS EN 1186-3	Materials and articles in contact with foodstuffs. Plastics Test methods for overall migration in evaporable simulants Test Parameters: Overall migration
BS EN 1186-9	Materials and Articles in Contact with Foodstuffs - Plastics - Part 9: Test Methods for Overall Migration into Aqueous Food Simulants by Article Filling Test Parameters: Overall migration

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BS EN 1186-13	Materials and articles in contact with foodstuffs. Plastics Test methods for overall migration at high temperatures Test Parameters: Overall migration
BS EN 1186-14	Materials and articles in contact with foodstuffs - Plastics - Part 14: Test methods for 'substitute tests' for overall migration from plastics intended to come into contact with fatty foodstuffs using test media iso-octane and 95 % ethanol. Test Parameters: Overall migration
BS EN 1230-1	Paper and board intended to come into contact with foodstuffs. Sensory analysis Odour. Test Parameters: Odour, Sensory
BS EN 1230-2	Paper And Board Intended to Come into Contact with Foodstuffs - Sensory Analysis - Part 2: Off-Flavour (Taint) Test Parameters: Sensory Analysis
BS EN 13130-1	Materials and articles in contact with foodstuffs. Plastics substances subject to limitation Guide to test methods for the specific migration of substances from plastics to foods and food simulants and the determination of substances in plastics and the selection of conditions of exposure to food simulants Test Parameters: Specific migration of Heavy element, Specific migration of Formaldehyde, Specific migration of Bisphenol A, Specific migration of Glycols, Specific migration of Styrene, Specific migration of acetaldehyde, Specific migration of Melamine, Specific migration of Phenol, Specific migration of Organotin (as tin)
CA Prop 65	The Safe Drinking Water and Toxic Enforcement Act Test Parameters: Leachable Lead, Leachable Cadmium
CEN/TS 13130-23	Materials and articles in contact with foodstuffs - Plastics substances subject to limitation - Part 23: Determination of formaldehyde and hexamethylenetetramine in food simulants Test Parameter: Specific migration of Formaldehyde
CEN/TS 13130-27	Materials and articles in contact with foodstuffs - Plastics substances subject to limitation - Part 27: Determination of 2,4,6-triamino-1,3,5-triazine in food simulants Test Parameter: 2,4,6-triamino-1,3,5-triazine (Melamine)
Council of EU resolution CM/ Res (2013) 9 on metal and alloy used in food contact materials and articles	Specific Migration of 23 Heavy elements Test Parameters: Silver, Aluminum, Cobalt, Chromium, Copper, Iron, Magnesium, Manganese, Molybdenum, Nickel, Tin, Titanium, Vanadium, Zinc, Arsenic, Barium, Beryllium, Cadmium, Mercury, Lithium, Lead, Antimony & Thallium

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Decret no.2007-766(Commission Directive 2005/31/EC)	Methods of test for and permissible limits of toxic materials released from ceramicware, vitreous enamelware, glassware and glass-ceramicware in contact with food Test Parameters: Leachable lead and cadmium
DIN 10955	Sensory Analysis - Testing of Packaging Materials And Packages For Foodstuffs Test Parameters: Odour, Sensory
EN 1541	Paper and board intended to come into contact with foodstuffs - Determination of formaldehyde in an aqueous extract Test Parameter: Formaldehyde
FSSAI Gazette Notification F.No.195/Std/Packaging/SP (L&C/A)/FSSAI as per IS 9845	Food safety standards (packing) regulations
IS 6615	Specification for General purpose packing/wrapping paper Test Parameters: Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium VI, Polychlorinated biphenyls, Pentachlorophenol (PCP)
IS 9806	Methods of test for and permissible limits of toxic materials released from ceramicware, vitreous enamelware, glassware and glass-ceramicware in contact with food Test Parameters: Leachable lead and cadmium
IS 9833	List of pigments and colourants for use in plastics in contact with foodstuffs, pharmaceuticals and drinking water Test Parameters: Colour migration i) Lead ii) Arsenic iii) Mercury iv) Cadmium v) Zinc vi) Selenium vii) Barium viii) Chromium ix) Antimony x) Primary aromatic amine xi) Sulphonated aromatic amine xii) Polychlorinated biphenyl xiii) Carcinogenic amine
IS 9845	Determination of overall migration of constituents of plastics materials and articles intended to come in contact with foodstuffs - method of analysis Test Parameters: Overall Migration, Colour Migration
ISO 4531	Vitreous and porcelain enamels — Release from enamelled articles in contact with food — Methods of test and limits Test Parameters: Leachable 16 metals

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ISO 15320	Pulp, paper and board - Determination of pentachlorophenol in an aqueous extract Test Parameter: Pentachlorophenol
Regulation (EU) 2020/1245 amends regulation (EU) no. 10/2011	On plastic materials and articles intended to come into contact with food Test Parameters: Overall migration, Specific migration
Resolution AP 89 (1)	On the use of colourants in plastic materials coming into contact with Food Test Parameter: Metal & Metalloids: Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium Unsulphonated aromatic amines: Benzidine, Beta – Naphthalamines, 4-Aminobiphenyl Unsulphonated aromatic amines (Total): Total Primary aromatic amines Sulphonated aromatic amines: Aniline sulphonic acid Polychlorinated biphenyl (PCBs): Monochlorobiphenyl, Dichlorobiphenyl, Trichlorobiphenyl, Tetra chlorobiphenyl, Penta chlorobiphenyl Hexa Chlorobiphenyl, Hepta Chlorobiphenyl, Octa Chlorobiphenyl, Nano Chlorobiphenyl, Deca Chlorobiphenyl
SOP/CH/TM-40	Overall, Color & Specific Migration of food contact plastic articles Test Parameters: Formaldehyde, Bisphenol A, Melamine, Primary aromatic amines, Phthalates, Soluble Heavy Metals
SOP/CH/TM-49	Determination of Overall Migration, Colour migration and Specific migration of Heavy metals of constituents of plastic materials (food packaging material) and articles intended to come in contact with foodstuffs. Test Parameters: Barium, Cobalt, Copper, Iron, Lithium, Manganese, Zinc, Aluminium, Nickel, Antimony
SOP/CH/TM-63	Specific migration of Primary Aromatic Amine Test Parameters: 2,4 -Xylidine, 2 – Naphthylamine, 4,4-Diamino- diphenylmethane, Benzidine, o- Amino azo toluene, o- Anisidine, o- Toluidine, p- Amino azo benzene, p- chloroaniline, p- kresidine, 2 - Amino-4-nitrotoluene, 2,4-Diamino anisole, 2,4,5- Trimethylaniline, 2,6-Xylidine, 3,3- Dichlorobenzidine, 3,3- Dimethoxy benzidine, 3,3- Dimethyl-4,4- diamino-diphenylmethane, 3,3- Dimethyl benzidine, 4 – Aminobiphenyl, 4 - Chloro-o-toluidine, 4,4-Oxydianiline, 4- Methylene-bis-(2- chloroaniline), 4,4- Thiodianiline, 2,4 Toluene diamine
SOP/CH/TM-64	Alignment of German LFGB Test Plan on Food Contact Materials Test Parameters: Overall migration, Specific migration
UNE CEN/TS 13130-13	Materials and articles in contact with foodstuffs - Plastics substances subject to limitation - Part 13: Determination of 2,2-bis (4 hydroxyphenyl) propane (Bisphenol A) in food simulants Test Parameter:

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	2,2-bis (4 hydroxyphenyl) propane (Bisphenol A)
US FDA 21CFR 175.300	Resinous and polymeric coatings Sub clause:(c) & (d) & (e) Chloroform soluble extractives residue by Water, Heptane & Alcohol
US FDA 21CFR 176.170	Paper and paperboard Sub clause:(c) & (d) Chloroform soluble extractives residue by Water, Heptane & Alcohol
US FDA 21CFR 177.1210	Closures with sealing gaskets Sub clause: (b)(c). Chloroform fraction of extractives by Water, Heptane & Alcohol.
US FDA 21CFR 177.1460	Melamine-formaldehyde resins Sub clause:(c) Chloroform soluble extractives residue by Water, Heptane & Alcohol.
U.S FDA 21CFR 177.1520	Polypropylene Sub clause: (c)(1.1) and (d)(3)(i)&(4)(i) Extractable fraction in n-hexane Soluble fraction in xylene
US FDA 21CFR 177.1520	Polyethylene homo-polymer and Olefin co-polymer Sub clause: (c)(2.1), (2.2), (3.1a), (3.1b) & (3.2a) and (d)(3)(ii)&(4)(ii) Extractable fraction in n-hexane Soluble fraction in xylene
US FDA 21CFR 177.1580	Polycarbonate resins Sub clause:(c) Total amount of extractives by water, Heptane and Alcohol.
US FDA 21CFR 177.1630	Polyethylene phthalate (PET) polymers Sub clause: (f)(g)(h)(i)(j). Chloroform soluble extractives residue by Water, Heptane & Alcohol.
US FDA 21CFR 177.1950	Vinyl chloride-ethylene copolymers Sub clause: (C) 2 (i) (ii) (iii) Total amount of extractives by water & Heptane
US FDA-1995	Determination of Leachable Lead and Cadmium Test Parameter: Leachable Lead, Leachable Cadmium
Field of Testing: CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS Matrix: Other (Non-metal, polymer, Plastic, Rubber, Paint, coating, Varnishes)	
ASTM E1613	Determination of Lead by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES), Test Parameter: Lead
ASTM E1645	Standard Practice for Preparation of Dried Paint Samples by Hotplate or Microwave Digestion for Subsequent Lead Analysis Test Parameter: Lead
CAN C-34	Determination of Phthalates in Polyvinyl chloride consumer products Test Parameter:

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	Di ethyl phthalate, Di butyl phthalate, Benzyl butyl phthalate, Di iso nonyl phthalate, Bis-(2-ethyl hexyl) phthalate, Di-n-octyl phthalate, Di iso decyl phthalate, Bis 2(butoxy ethyl) phthalate
CPSC-CH-E1002-08	Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products Test Parameter: Lead
CPSC-CH-E-1002- 08.3	Standard Operating Procedure for Determining Total Lead (Pb) in Nonmetal Test Parameter: Lead
CPSC-CH-E-1003- 09.1	Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings Test Parameter: Lead
EN 1122	Plastics - Determination of cadmium - Wet decomposition method Test Parameter: Cadmium
ISO 11890-1	Paints and varnishes — Determination of volatile organic compound (VOC) content — Part 1: Difference method Test Parameters: Benzene, m-cresol, o-cresol, p-cresol, Xylene, Toluene
ISO 11890-2	Paints and varnishes — Determination of volatile organic compounds (VOC) and/or semi volatile organic compounds (SVOC) content — Part 2: Gas-chromatographic method Test Parameters: Benzene, m-cresol, o-cresol, p-cresol, Xylene, Toluene
SOP/CH/TM-42	Determination of Cadmium content by Acid Digestion Test Parameter: Cadmium
SOP/CH/TM-68	Determination of siloxanes in various consumer products Test Parameters: Octamethylcyclotetrasiloxane (D4) Decamethylcyclopentasiloxane (D5) Dodecamethylcyclohexasiloxane (D6)
SOP/CH/TM-69	Identification of Polymers by FTIR