

Laboratory Intertek India Private Limited, #17/F, Industrial Suburb, 2nd Stage, Industrial Area, Yeshwanthpur, Bangalore, Karnataka

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6637 (in lieu of T-1361& T-1362)

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Validity 18.12.2017 to 17.12.2019

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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CHEMICAL TESTING

I.	TEXTILE (WOVEN & NON WOVEN)			
1.	Yarn & Chords, Finished Fabric, Apparels/Garments, Made-ups, Terry Fabrics & its products, Technical Textiles, Domestic Textiles	Colour Fastness to Washing	ISO 105 C01-C05-1989 ISO 105 C06-2010 ISO 105 C08-2010 AATCC 61-2013 BS EN ISO 105 C08-2010 ISO 105 C10-2006 GB/T 3921-2008	Qualitative Grade1 to 5
		Colour Fastness to Rubbing/ Crocking	ISO 105 X 12-2016 BS EN ISO 105 X12-2016 AATCC 8-2016 GB/T 3920-2008	Qualitative Grade1 to 5
		Colour fastness to Crocking Rotary Vertical Crock meter	AATCC 116: 2013	Qualitative Grade1 to 5
		Colour Fastness to Perspiration	ISO 105 E04-2013 BS 1006 E04-1990 BS EN ISO 105 E04-2013 AATCC 15-2013 GB/T 3922-2013	Qualitative Grade1 to 5
		Colour Fatness to Dry Cleaning	ISO 105 D01-2010 BS 1006 D01-1990 BSEN ISO 105 D01-2010 AATCC 132-2013 GB/T 5711-2015	Qualitative Grade1 to 5
2.	Yarn & Chords, Finished Fabric, Apparels/Garments, Terry Fabrics & its products, Domestic Textiles	Colour Fastness to Light	ISO 105 B02-2014 BS 1006 B02-1990 BS EN ISO 105 B02-2014 AATCC 16.3: 2014 GB/T 8427 Method 3: 2008	Rating: 1 to 8 Grade1 to 5

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3.	Yarn & Chords, Finished Fabric, Apparels/Garments, Made-ups, Terry Fabrics & its products, Technical Textiles, Domestic Textiles	Colour Fastness to Water	ISO 105 E01-2013 BS EN ISO 105 E01-2013 AATCC 107-2013 GB/T 5713 - 2013	Qualitative Grade1 to 5
		Colour Fastness to Chlorinated Water	BS EN ISO 105 E03-2010	Qualitative Grade1 to 5
		Colour Fastness to Sea Water	ISO 105 E02-2013 BS 1006 E02-1990 BS EN ISO 105 E02-2013 AATCC 106-2013	Qualitative Grade1 to 5
		Colour Fastness to Organic Solvent	ISO 105 X05-1994 BS 1006 X05-1990	Qualitative Grade1 to 5
		Colorfastness to Saliva	DIN 53160-1974 DIN 53160-1: 2010 DIN 53160-2: 2010 GB/T 18886: 2002	Qualitative Grade1 to 5
		Fibre Composition Qualitative analysis Quantitative analysis (composition in weight %)	BS 4407-1988 ISO 1833-2006 Part-1:2006/Part-2:2006/ Part-3:2006/ Part-4:2006 / Part-5:2006/ Part-6:2007 / Part-7:2006 / Part-11:2006/ Part-12:2006/ Part-18:2006 AATCC 20-2013 AATCC 20 A-2014	Upto 100 %
		Determination of pH of Aqueous Extract	ISO 3071-2005 AATCC 81-2016 GB/T 7573-2009	1 pH to 14 pH
		Dimensional Stability to washing	ISO 6330-2012 BS EN ISO 6330: 2012 ISO 5077:2007 AATCC 135-2015 AATCC 150-2012	(-)50 % to 50 %

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			BS EN ISO 3759-2011 GB/T 8629 - 2017	
4.	Finished Fabric, Apparels/Garments, Made-ups, Terry Fabrics & its products, Technical Textiles, Domestic Textiles	Smoothness Appearance of Fabrics after Repeated Home Laundering	AATCC 124-2014 ISO 7768:2009	Qualitative Grade1 to 5
		Appearance of apparel and other textile products after repeated home laundering	AATCC 143-2014	Qualitative Grade1 to 5
		Skewness change in fabric and garment twist resulting from automatic laundering	AATCC 179-2012	Up to 50 %
		Smoothness of seams in fabric after repeated home laundering	AATCC 88B-2014	Qualitative Grade1 to 5
		Retention of creases in fabric after repeated home laundering	AATCC 88C-2014	Qualitative Grade1 to 5
		1.Formaldehyde release from fabric, Determination of Sealed Jar Method 2.Free and hydrolyzed formaldehyde (water Extraction Method) 3.Released formaldehyde(Vapor Absorption Method)	AATCC 112-2014 BS EN ISO 14184-1-2011 BS EN ISO 14184-2-2011 JIS L 1041: 2011 (Acetyl acetone Method) GB/T 2912.1: 2009	5 mg/kg to 1000 mg/kg
		Colourfastness to Heat	AATCC 117:2013 ISO 105 P01:1993	Qualitative Grade1 to 5

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II.	HAZARDOUS & RESTRICTED CHEMICALS			
1.	Textile & Textile products, Prints, Zippers & Others- Textile Accessories	Chlorinated Phenol Pentachlorophenol (87-86-5), 2,3,4,5-Tetrachlorophenol (4901-51-3) 2,3,4,6-Tetrachlorophenol (58-90-2), 2,3,5,6-Tetrachlorophenol (935-95-5), 2,3,6-Trichlorophenol (933-75-5), 2,4,6-Trichlorophenol (88-06-2), 2,3,5-Trichlorophenol (933-78-8), 3,4,5-Trichlorophenol (609-19-8), o-phenylphenol (90-43-7) 2,4,5-Trichlorophenol (95-95-4) 2,3,4-Trichlorophenol (15950-66-0) 2,4-Dichlorophenol (120-83-2)	For Leather & Textile 35 LMBG 82-02 -8:2001	0.05 mg/kg to 100 mg/kg
		Aromatic amines derived from azo colorants O -Toluidine (95-53-4) 2, 4 Xylidine(95-68-1) O Anisidine (90-04-0) P-Chloroaniline (106-47-8) P-Kreidine (120-71-8) 2, 4, 5 Trimethylaniline (137-17-7)	LMBG 82-02 - 2: 2004 LMBG 82-02-4 : 2004 ISO 14362 - 1: 2017 ISO 14362 - 3-2017 GB/T 17592 : 2011	2 mg/kg to 300 mg/kg

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		4 Chloro Toluidine (95-69-2) 2, 4 Tolyenediamine (95-80-7) 2, 4 Diaminoanisole (615-05-4) 2 Naphthalamine (91-59-8) 2 Aminonitro-4 Toluene (99-55-8) 4 Aminobiphenyl (92-67-1) P-Aminoazobenzene (60-09 - 03) 4, 4 Oxydianiline (101-80-4) Benzidine (92-87 - 5) 4, 4 Diaminodiphenylmethane (101-77-9) O Amino azotoluene (97-56-3) 4, 4 Diamino-3,3 Dimethyl diphenyl amine (838-88-0) 3, 3 Dimethyl Benzidine (119-93-7) 4, 4 Thiodianiline (139-65-1) 3, 3 Dichloro benzidine (91-94-1) 4, 4 Methylene-Bis-2 Chloraniline (101-14-4) 3, 3 Dimethoxy Benzidine (119-90-4) 2, 6 Xylidine (87-62-7)		

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Chlorobenzene & chlorotoluene content 2-chlorotoluene, (95-49-8) 3-chlorotoluene, (108-41-8) 4-chlorotoluene, (106-43-4) 2,3-Dichlorotoluene, (32768-54-0) 2,4-Dichlorotoluene, (95-73-8) 2,5-Dichlorotoluene, (19398-61-9) 2,6-Dichlorotoluene, (118-69-4) 3,4-Dichlorotoluene, (95-75-0) 2,4,5-Trichlorotoluene, (6639-30-1) 2,3,6-Trichlorotoluene (2077-46-5) A,A,2,6-Tetrachlorotoulene (81-19-6) 2,3,4,5,6 Pentachlorotoluene, (877-11-2) 1,2-Dichlorobebzene, (95-50-1) 1,3-Dichlorobebzene, (541-73-1) 1,4-Dichlorobebzene, (106-46-7) 1,2,3-Trichlorobenzene, (87-61-6) 1,2,4-Trichlorobenzene, (120-82-1) 1,3,5-Trichlorobenzene,	DIN 54232 : 2010	0.1 mg/kg to 100 mg/kg

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		(108-70-3) 1,2,3,4-Tetrachlorobenzene, (634-66-2) 1,2,3,5-Tetrachlorobenzene, (634-90-2) 1,2,4,5-Tetrachlorobenzene, (95-94-3) Pentachlorobenzene, (608-93-5) Hexachlorobenzene (118-74-1)		
		Disperse and carcinogenic dyes:- Disperseblue 1 CAS No.2475-45-8 Disperseblue 3 CAS No.2475-46-9 Disperseblue 106 CAS No.12223-01-7 Disperseblue26 CAS No.3860-63-7 Disperseblue 124 CAS No.61951-51-7 Disperse Red 11 CAS No.2872-48-2 Disperse Red 1 CAS No.2872-52-8 Disperse Red 17 CAS No.3179-89-3 Disperse Yellow 1 CAS No.119-15-3 Disperse Yellow 3	DIN 54231-2005	1 mg/kg to 5000 mg/kg

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		CAS No.2832-40-8 Disperse Yellow 23 CAS No.6250-23-3 Disperse Yellow 39 CAS No.12236-29-2 Disperse Orange 3 CAS No.730-40-5 Disperse Orange 37 CAS No.13301-61-6 Disperse Orange 1 CAS No.2581-69-3 Disperse Orange 11 CAS No.82-28-0 Disperse Orange 149 CAS No.85136-74-9 Disperse Brown 1 CAS No.23355-64-8 Navy Blue 018112 CAS No.118685-33-9 Basic violet3 CAS No.548-62-9 Basic Red 9 CAS No.569-61-9 Acid Red 26 CAS No.3761-53-3 Basic Violet 14 CAS No.632-99-5 Direct Red 28 CAS No.573-58-0 Basic Violet 1 CAS No.88004-87-3		
		Total Cadmium Content by Wet decomposition method	BSEN 1122 : 2001	0.2 mg/kg to 10000 mg/kg
		Estimation of NPEO/NP & OPEO/OP	ISO 18254-2016	10 mg/kg to 1000 mg/kg

Malancha Das
Convenor

N. Venkateswaran
Program Director

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Migration of Organotin compounds Dibutyltin (DBT) (683-18-1) Tributyltin (TBT) (1461-22-9) Tetrabutyltin (TEBT) (1461-25-2) Mono-octyl tin (MOT) (3091-25-6) Diocetyl tin (DOT) (3542-36-7) Di phenyltin (1135-99-5) Monomethyltin (23001-26-5) Dimethyltin (753-73-1) Trimethyltin (1066-45-1) Tri Octyltin-Chloride (2587-76-0)	BS EN 71-3: 2013+A1-2014 ISO 17353:2004	0.05 mg/kg to 20 mg/kg
		Migration of certain elements Barium, Lead, Cadmium, Antimony, Selenium, Chromium (III), Chromium (vi), Mercury, Arsenic, Aluminum, Boron, Cobalt, Copper, Manganese, Nickel,	BS EN 71-3: 2013+A1-2014	0.2 mg/kg to 10000 mg/kg

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		Strontium, Tin, Zinc		
		Total Lead in Nonmetal (In children products)	ASTM E1645-2016 ASTM E1613-2012 CPSC-CH-E-1002-08.2.2012	10 mg/kg to 10000 mg/kg
		Lead in paint/Lead in surface coating (paints & other similar surface coating)	CPSC-CH-E1003-09.1.2011 ASTM E 1613: 2012 ASTM E 1645:2016	10 mg/kg to 10000 mg/kg
		Total lead content in Substrate	CPSC-CH-E 1001-08.2012	10 mg/kg to 10000 mg/kg
2.	Prints, Zippers & Others-Textile Accessories	Total Lead Content in Substrate (Sediments/Sludges/Soils and Oil)	ASTM E1645-2016 ASTM E1613-2012-Using extraction procedure	10 mg/kg to 10000 mg/kg
3.	Zippers & Others-Textile Accessories & Metal Accessories	Release of Nickel from Metal Accessories	EN1811-2011 +A1: 2015 EN 12472 :2005 +A1 :2009 EN 12471 :2002	0.1 to 10 µg/cm ² /week
4.	Finished leather, Leather accessories, Leather products & Synthetic leather	Chlorinated Phenol Pentachlorophenol (87-86-5), 2,3,4,5-Tetrachlorophenol (4901-51-3) 2,3,4,6-Tetrachlorophenol (58-90-2), 2,3,5,6-Tetrachlorophenol (935-95-5), 2,3,6-Trichlorophenol (933-75-5), 2,4,6-Trichlorophenol (88-06-2), 2,3,5-Trichlorophenol (933-78-8),	35 LMBG 82-02 -8:2001 ISO 17070:2015	0.05 mg/kg to 100 mg/kg

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		3,4,5-Trichlorophenol (609-19-8), o-phenylphenol (90-43-7) 2,4,5-Trichlorophenol (95-95-4) 2,3,4-Trichlorophenol (15950-66-0) 2,4-Dichlorophenol (120-83-2)		
		Aromatic amines derived from azo colorants O -Toluidine (95-53-4) 2, 4 Xylidine(95-68-1) O Anisidine (90-04-0) P-Chloroaniline (106-47-8) P-Kreidine (120-71-8) 2, 4, 5 Trimethylaniline (137-17-7) 4 Chloro Toluidine (95-69-2) 2, 4 Tolyenediamine (95-80-7) 2, 4 Diaminoanisole (615-05-4) 2 Naphthalamine (91-59-8) 2 Aminonitro-4 Toluene (99-55-8) 4 Aminobiphenyl (92-67-1) P-Aminoazobenzene (60-09 - 03) 4, 4 Oxydianiline (101-80-4) 4 Benzidine (92-87 - 5) 4, 4 Diaminodiphenylmethane (101-77-9)	LMBG 82-02 - 3: 1997 ISO 17234-1:2015 ISO 17234-2:2011	2 mg/kg to 300 mg/kg

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		O Amino azotoluene (97-56-3) 4, 4 Diamino-3,3 Dimethyl diphenyl amine (838-88-0) 3, 3 Dimethyl Benzidine (119-93-7) 4, 4 Thiodianiline (139-65-1) 3, 3 Dichloro benzidine (91-94-1) 4, 4 Methylene-Bis-2 Chloraniline (101-14-4) 3, 3 Dimethoxy Benzidine (119-90-4) 2, 6 Xylidine (87-62-7)		
		Dimethyl fumarate	ISO/TS 16186 2012	0.1 mg/kg to 100 mg/kg
		Migration of Organotin compounds Dibutyltin (DBT) (683-18-1) Tributyltin (TBT) (1461-22-9) Tetrabutyltin (TTBT) (1461-25-2) Mono-octyl tin (MOT) (3091-25-6) Diocetyl tin (DOT) (3542-36-7) Di phenyltin (DPT) (1135-99-5) Monomethyltin (23001-26-5) Dimethyltin (753-73-1) Trimethyltin (1066-45-1) Tri Octyltin-Chloride	BS EN 71-3: 2013+A1-2014	0.05 mg/kg to 20 mg/kg

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		(2587-76-0)		
		Estimation of Formaldehyde content	ISO 17226-1: 2008	5 mg/kg to 1000 mg/kg
		Determination of pH of aqueous extract	ISO 4045:2008	1-14
		Migration of certain elements Barium, Lead, Cadmium, Antimony, Selenium, Chromium (III), Chromium (vi), Mercury, Arsenic, Aluminum, Boron, Cobalt, Copper, Manganese, Nickel, Strontium, Tin, Zinc	BS EN 71-3: 2013+A1-2014	0.2 mg/kg to 10000 mg/kg
5.	Finished leather, Leather accessories & Leather products.	Chromium VI	ISO 17075-1 :2017 DIN EN ISO 17075-1:2017	3 mg/kg to 100 mg/kg 1 mg/kg to 100 mg/kg
6.	Toys and sports equipment	Estimation of Phthalates Di-isononyl phthalate (DINP); CAS No. 28553-12-0 Di-(2-ethylhexyl)phthalate (DEHP); CAS No. 117-81-7	CPSC-CH-C1001-09.3: 2010 BSEN 14372:2004 BS EN ISO 14389:2014	10 mg/kg to 10000 mg/kg 50 mg/kg to 10000 mg/kg

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		Di-n-octyl phthalate (DNOP); CAS No. 117-84-0 Di-iso-decyl phthalate (DIDP); CAS No. 26761-40-0 Butyl benzyl phthalate (BBP); CAS NO. 85-68-7 Di-butyl phthalate (DBP); CAS No. 84-72-2 Di-n-hexyl phthalates (DnHP) CAS No. 84-75-3 N-pentyl-isopentylphthalate (NPIPP) CAS No. 84777-06-0 Bis(2-methoxyethyl)phthalate (DMEP) CAS No. 117-82-8 Di-n-petyl phthalate (DnPP) CAS No. 131-18-0 Di-iso pentyl phthalate (DIPP) CAS No. 605-50-5 Di-iso Butyl phthalate (DIBP) CAS No. 84-69-5 Diethyl Phthalate (DEP) CAS No. 84-66-2 Dimethyl Phthalate (DMP) CAS No. 131-11-3 Di Iso Heptyl Phthalate (DIHP) CAS No. 71888-89-		

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		6 1,2-Benzenedicarboxylic acid, dipentylester, branched & linear (84777-06-0) 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters. (DHNUP) Di-Cyclo Hexyl Phthalate (DCHP) CAS No. 84-61-7 Di n Propyl Phthalate (DPRP) CAS No. 131-16-8 Di Iso Hexyl Phthalate (DIHXP) CAS No. Various Di Nonyl Phthalate (DNP) CAS No. 84-76-4 Di Iso Octyl Phthalate(DIOP) CAS No. 27554-26-3 Bis(2-propylheptyl)Phthalate CAS No. 53306-54-0		
		Estimation of Phthalates Di-isononyl phthalate (DINP); CAS No. 28553-12-0 Di-(2-ethylhexyl)phthalate (DEHP); CAS No. 117-81-7 Di-n-octyl phthalate (DNOP); CAS No. 117-84-0 Di-iso-decyl phthalate (DIDP); CAS No. 26761-40-0	For Toys & Plastics CPSC-CH-C1001-09.3: 2010 BSEN 14372:2004 For Textile BS EN ISO 14389:2014	50 mg/kg to 10000 mg/kg 50 mg/kg to 10000 mg/kg

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		Butyl benzyl phthalate (BBP); CAS NO. 85-68-7 Di-butyl phthalate (DBP); CAS No. 84-72-2 Di-n-hexyl phthalates (DnHP) CAS No. 84-75-3 N-pentyl-isopentylphthalate (NPIPP) CAS No. 84777-06-0 Bis(2-methoxyethyl)phthalate (DMEP) CAS No. 117-82-8 Di-n-petyl phthalate (DnPP) CAS No. 131-18-0 Di-iso pentyl phthalate (DIPP) CAS No. 605-50-5 Di-iso Butyl phthalate (DIBP) CAS No. 84-69-5 Diethyl Phthalate (DEP) CAS No. 84-66-2 Dimethyl Phthalate (DMP) CAS No. 131-11-3 Di Iso Heptyl Phthalate (DIHP) CAS No. 71888-89-6 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters. (DHNUP)		

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		1,2-Benzenedicarboxylic acid, dipentylester, branched & linear (84777-06-0) Di-Cyclo Hexyl Phthalate (DCHP) CAS No. 84-61-7 Di-Cyclo Hexyl Phthalate (DCHP) CAS No. 84-61-7 Di n Propyl Phthalate (DPRP) CAS No. 131-16-8 Di Iso Hexyl Phthalate (DIHXP) CAS No. Various Di Nonyl Phthalate (DNP) CAS No. 84-76-4 Di Iso Octyl Phthalate(DIOP) CAS No. 27554-26-3 Bis(2-propylheptyl)Phthalate CAS No. 53306-54-0		
		Phthalate Esters in Toys and Children's Products	IS 9873 - 6: 2017 IS 9873-9:2017	50 mg/kg to 200000 mg/kg LOD: 40 mg/kg
		Di n Butyl phthalate (cas 84-74-2)		
		Benzyl butyl Phthalate (cas 85-68-7)		
		Bis (2-ethlyhexyl Phthalates) (Cas no :117-81-7)		
		Di-n-Octyl Phthalate (Cas no: 117-84-0)		
		Di iso Nonyl Phthalate (Cas no: 28553-12-0 and 68515-48-0)		

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		Di iso Decyl Phthalate (Cas no: 26761-40-0 and 68515-49-1)		
		Migration of Organotin compounds Dibutyltin (DBT) (683-18-1) Tributyltin (TBT) (1461-22-9) Tetrabutyltin (TTBT) (1461-25-2) Mono-octyl tin (MOT) (3091-25-6) Dioctyltin (DOT) (3542-36-7) Di phenyltin (DPT) (1135-99-5) Monomethyltin (23001-26-5) Dimethyltin (753-73-1) Trimethyltin (1066-45-1) Tri Octyltin-Chloride (2587-76-0)	BS EN 71-3: 2013+A1-2014	0.05 mg/kg to 20 mg/kg
		Migration of certain elements Barium, Lead, Cadmium, Antimony, Selenium, Chromium (III), Chromium (vi), Mercury, Arsenic, Aluminum, Boron,	BS EN 71-3: 2013+A1-2014	0.2 mg/kg to 10000 mg/kg

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Cobalt, Copper, Manganese, Nickel, Strontium, Tin, Zinc		
		Migration of Elements	IS 9873-3:2017	0.1 to 10000 mg/kg LOD: 0.05 mg/kg
		Antimony (Sb)		
		Arsenic (As)		
		Barium (Ba)		
		Cadmium (Cd)		
		Chromium (Cr)		
		Lead (Pb)		
		Mercury (Hg)		
		Selenium (Se)		
7.	Electro technical products containing hazardous chemicals, polymer & metal under ROHS regulation	Migration of Certain Elements	IEC 62321-2008	
		Lead		0.2 mg/kg to 300000 mg/kg
		Cadmium		0.2 mg/kg to 100000 mg/kg
		Mercury		0.2 mg/kg to 100000 mg/kg
		Chromium (VI)		1 mg/kg to 2000 mg/kg
8.	Plastics & polymers Raw materials Plastic films	Total Cadmium Content by Wet decomposition method	BSEN 1122 : 2001	0.2 mg/kg to 10000 mg/kg
		Migration of certain elements Barium, Lead, Cadmium, Antimony, Selenium, Chromium (III),	BS EN 71-3: 2013+A1-2014	0.2 mg/kg to 10000 mg/kg

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Chromium (vi), Mercury, Arsenic, Aluminum, Boron, Cobalt, Copper, Manganese, Nickel, Strontium, Tin, Zinc		
		Migration of Organotin compounds Dibutyltin (DBT) (683-18-1) Tributyltin (TBT) (1461-22-9) Tetrabutyltin (TTBT) (1461-25-2) Mono-octyl tin (MOT) (3091-25-6) Diocetyl tin (DOT) (3542-36-7) Di phenyltin (1135-99-5) Monomethyltin (23001-26-5) Dimethyltin (753-73-1) Trimethyltin (1066-45-1) Tri Octyltin-Chloride (2587-76-0)	BS EN 71-3: 2013+A1-2014	0.05 mg/kg to 20 mg/kg
		Estimation of Phthalates Di-isononyl phthalate (DINP); CAS No. 28553-12-0 Di-(2-ethylhexyl)phthalate	For Toys & Plastics CPSC-CH-C1001-09.3: 2010 BSEN 14372:2004 For Textile	50 mg/kg to 10000 mg/kg

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		(DEHP); CAS No. 117-81-7 Di-n-octyl phthalate (DNOP); CAS No. 117-84-0 Di-iso-decyl phthalate (DIDP); CAS No. 26761-40-0 Butyl benzyl phthalate (BBP); CAS NO. 85-68-7 Di-butyl phthalate (DBP); CAS No. 84-72-2 Di-n-hexyl phthalates (DnHP) CAS No. 84-75-3 N-pentyl-isopentylphthalate (NPIPP) CAS No. 84777-06-0 Bis(2-methoxyethyl)phthalate (DMEP) CAS No. 117-82-8 Di-n-petyl phthalate (DnPP) CAS No. 131-18-0 Di-iso pentyl phthalate (DIPP) CAS No. 605-50-5 Di-iso Butyl phthalate (DIBP) CAS No. 84-69-5 Diethyl Phthalate (DEP) CAS No. 84-66-2 Dimethyl Phthalate (DMP) CAS No. 131-11-3 Di Iso Heptyl Phthalate	BS EN ISO 14389:2014	

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		(DIHP) CAS No. 71888-89-6 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters. (DHNUP) 1,2-Benzenedicarboxylic acid, dipentylester, branched & linear (84777-06-0) Di-Cyclo Hexyl Phthalate (DCHP) CAS No. 84-61-7 Di-Cyclo Hexyl Phthalate (DCHP) CAS No. 84-61-7 Di n Propyl Phthalate (DPRP) CAS No. 131-16-8 Di Iso Hexyl Phthalate (DIHXP) CAS No. Various Di Nonyl Phthalate (DNP) CAS No. 84-76-4 Di Iso Octyl Phthalate(DIOP) CAS No. 27554-26-3 Bis(2-propylheptyl) Phthalate CAS No. 53306-54-0		
9.	Plastics & polymers and Raw materials	Determination of Poly Aromatic Hydro Carbon Naphthalene (91-20-3) Acenaphthylene (208-96-8) Acenaphthene (83-32-9) Fluorene (86-73-7) Phenanthrene (85-01-8) Anthracene (120-12-7) Fluoranthene (206-44-0)	ZEK-01.04.08	0.1 mg/kg to 100 mg/kg

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Pyrene (129-00-0) Benzo[a]anthracene (56-55-3) Chrysene (218-01-9) Benzo[b]fluoranthene (205-99-2) Benzo[j]fluoranthene (205-82-3) Benzo[k]fluoranthene (207-08-9) Benzo[e]pyrene (192-97-2) Benzo[a]pyrene (50-32-8) Indeno[123-cd]pyrene (193-39-5) Dibenzo[a,h]anthracene (53-70-3) Benzo[g,h,i]perylene (191-24-2)		
10.	Plastics & polymers	Determination of Bisphenol-A CAS NO 80-05-7	In-house Method (Harmonized Method C011.TP-2014 ISSUE 3 & 24/January/ 2014)	0.1 mg/kg to 100 mg/kg
		Determination of Perfluorinatedoctane sulfonic Acid (PFOS) CAS NO 1763-23-1 & Perfluorooctanoic acid (PFOA) CAS NO 335-67-1	In-house Method (Harmonized Method C016.TP-2013 ISSUE 4 & 30/August/ 2013)	0.1 mg/kg to 100 mg/kg
11.	Paints-Finger Paints	Azo colorants and free Primary Aromatic Amines	IS 9873 - 7 : 2017	2 mg/kg to 300 mg/kg LOD: 1 mg/kg
		o-Toluidine (Cas No: 95-53-4)		
		4-Methoxy -aniline (Cas No: 90-04-0)		

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		4-Chloroaniline (Cas No: 106-47-8)		
		6-Methoxy-m-tuluidine (Cas No: 120-71-8)		
		2,4,5-Trimethylaniline (Cas No: 137-17-7)		
		4-Chloro-o-tuluidine (Cas No: 95-69-2)		
		p-Aminoazobenzene (Cas No: 60-09-3)		
		4,4-oxydianiline (Cas No: 101-80-4)		
		Benzidine (Cas No: 92-87-5)		
		4,4-Methylenedianiline (Cas No: 101-77-9)		
		o-Aminoazotoluene (Cas No: 97-56-3)		
		4,4-Methylenedi-o-toluidine (Cas No: 838-88-0)		
		4-Methyl-m-phenylenediamine (Cas No: 95-80-7)		
		4-Methoxy-m-phenylenediamine (Cas No: 615-05-4)		
		2-Naphthylamine (Cas No: 91-59-8)		
		5-Nitro-o-toluidine (Cas No: 99-55-8)		
		4-Aminobiphenyl (Cas No: 92-67-1)		
		3,3-Dimethylbenzidine (Cas No: 119-93-7)		

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		4,4-Thiodiaaniline (Cas No: 139-65-1)		
		3,3-Dichlorobenzidine (Cas No: 91-94-1)		
		2,2-Dichloro-4,4- methylenedianiline (Cas No: 101-14-4)		
		3,3-Dimethoxybenzidine (Cas No: 119-90-4)		

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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MECHANICAL TESTING

I.	TEXTILE MATERIALS			
1.	Fabrics (Woven and Non Woven) & Garments & Apparel	Tensile (Strip) Strength	ISO 13934-1-2013 ASTM D 5035-11(2015) GB/T 3923.1: 2013	Strength: 100 N to 10 kN
		Elongation		Elongation: 1 % to 200 %
		Tensile (Grab) Strength	BS EN ISO 13934-2-2014 ASTM D 5034-2009(2013) GB/T 3923.2: 2013	
		Elongation		
		Tear Strength (Elmendorf)	ASTM D 1424: 2009(2013) BS EN ISO 13937-1-2000 GB/T 3917.1 : 2009	3.1 N to 100 N
		Tear Strength (Single rip)	ASTM D 2261-2013 BSEN ISO 13937-2-2000 GB/T 3917.2 : 2009	10 N to 1000 N
		Tear Strength (Wing Tear)	BSEN ISO 13937-3: 2000	100 N to 1000 N
		Bursting Strength (Hydraulic)	ISO 13938-1-1999 (E) ASTM D 3786/D 3786 M: 2013	1.5 kg/sq.cm to 11 kg/sq.cm
				150 kPa to 1250 kPa (20 psi to 180 psi)
		Bursting Strength (Steel Ball)	GB/T 19976: 2005	100 N to 1000 N
		Seam Slippage (Fixed Opening)	BS EN ISO 13936-1:2004 FZ/T 81007-2012, Section 4.4.5 Annex A	100 N to 10 kN
		Seam Strength	BS EN ISO 13935-2-2014 ASTM D 1683- 2017 FZ/T 81007-2012, Section 4.4.6 Annex B	
		Seam Slippage (Fixed Load)	BS EN ISO 13936-2:2004	Up to 50mm

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Threads per Unit Length (Woven & fabric construction)	ASTM D 3775-2012 BS EN 1049-Part 2 -1994	10 to 50 per cm (25 to 125 per inch)
		Stitch Density (knitted fabric)	BS 5441-1988 (2012) ASTM D 3887-1996(2008)	5 to 50 per cm (12-125 per inch)
		Fabric Mass Per Unit Area	BS 2471-2005 ISO 3801-1977-Method 5 ASTM D 3776/D 3776M-09a(2013)- Option C BS EN 12127-1998	20 to 1000 gsm
		Fabric Width	ISO 3932-1976 ISO 22198:2006 ASTM D 3774-96(2016)	1 cm to 300 cm
		Distortion in bowed and skewed fabrics	BS 2819-1990+A2:2016 ASTM D 3882-08(2016)e1	Up to 50 %
		Pilling Resistance (Pilling Box)	BS EN ISO 12945-1-2001	Qualitative Grade1to Grade 5
		Pilling Resistance (Martindale)	ASTM D 4970/4970M-2016e2	Qualitative Grade1to Grade 5
		Pilling Resistance (Random Tumble)	ASTM D 3512/3512M-2016	Qualitative Grade1to Grade 5
		Pilling Resistance (Modified martindale)	BS EN ISO 12945-2-2000	Qualitative Grade1to Grade 5
		Pilling Resistance (Circular Locus)	GB/T 4802.1 : 2008	Qualitative Grade1to Grade 5
		Abrasion Resistance (Martindale Spécimen break down)	ASTM D 4966-12(2016) BS EN ISO 12947- Part 1 :1999 & 2-2016	10 Cycles to 1,00,000 Cycles
		Abrasion Resistance (Martindale Spécimen break down)		Qualitative Grade1to Grade 5
		Water Repellency: Spray Test	AATCC 22 –2014 ISO 4920 - 2012	Ratings: 0, 50, 70, 80, 90 and 100
		Absorbency of Textiles	AATCC 79- 2014	0 seconds to 60 seconds / 60+ seconds.

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Stretch & Recovery	ASTM D 3107-07 (2015) ASTM D 2594-04 (2016) BS EN 14704 part 1-2005 BS 4952 part 2.4-1992 ASTM D 4964- 96(2016)	Up to 400 %
2.	Textile Accessories	CPSC Drawstrings Guideline on Children's upper outer wear /clothing a) Presence of Drawstrings at Hood & Neck area. b) b) Presence of drawstrings at Waist & Bottom area or lower of garments. c) If Present: Is the length of drawstring outside drawstring channel more than 75 mm when the garment is expanded to its fullest width. Presence of Toggles, Knots or any other decorative attachments at the free end of drawstring. Is the drawstring bar tacked, if it is one continuous string.	ASTM F 1816:97(2009) BS EN 14682 –2014 CPSC 208: 1999	Qualitative
3.	Fabrics (Woven and Non Woven), Garments & Apparel, Handloom textiles.	Flammability of General Clothing Textiles	ASTM D 1230- 10(2016)e1 16CFR part 1610-2008 BE EN 1103 -2005 (BS EN 14878:2007) BS EN ISO 6941:2003- Procedure A	Qualitative Class 1 to 3 & A to C (up to 99Sec)

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
II.	TOYS AND SIMILAR PRODUCTS			
1.	Toys and Similar products	Sharp Points Under a force of 4.45 N (1 Pound)	16 CFR 1500.48:2012 IS 9873 (Part 1): 2017 Clause No : 5.9	Qualitative
		Sharp Edges Under a force of upto 8.90 N (2 Pound)	16 CFR 1500.49:2012 IS 9873 (Part 1): 2017 Clause No : 5.8	Qualitative
		Small Parts-Chocking Hazard Test(Small part cylinder of 31.71 mm inner diameter)	16 CFR 1501:2012 IS 9873 (Part 1): 2017 Clause No : 5.2	Qualitative
		Torque Test Upto 9.177 kgfcm (Upto 7.96 inch pound)	16 CFR 1500.51-53:2012 Section (e) IS 9873 (Part 1): 2017 Clause No : 5.24.5	Qualitative
		Tension Test upto 196.1N (Upto 20 kg or 44 Pounds)	16 CFR 1500.51-53:2012 Section (f) IS 9873 (Part 1): 2017 Clause No : 5.24.6	Qualitative
		Drop Test as per the standard(Upto 200cm height or 6.6 feet)	16 CFR 1500.51-53:2012 Section (b) IS 9873 (Part 1): 2017 Clause No : 5.24.2	Qualitative
		Compression Test upto 196.1N (Upto 20 kg or 44 Pounds)	16 CFR 1500.51-53: 2012 Section (g) IS 9873 (Part 1): 2017 Clause No : 5.24.7	Qualitative
		Flexure Test through 120° arc up to 67 N (Upto 6.83 kg or 15 Pounds)	16 CFR 1500.51-53: 2012 Section (d) IS 9873 (Part 1): 2017 Clause No : 5.24.8	Qualitative