

Laboratory Texanlab Laboratories Pvt. Ltd., R-855, 1st Floor, TTC Industrial Area, Rabale, P.O. Ghansoli, Navi Mumbai, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-5474 (In lieu of T-0498 & T-0499)

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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.	Fiber/ Filaments/ Yarn/ Cords/ Fabrics/Terry Fabrics/ Apparels/ Garments/ Carpets & Rugs/Made ups	Color Fastness to Light	AATCC 16.3 - 2014 ISO 105 B02 - 2014	Grade 1 to Grade 5 Grade 1 to Grade 8
		Color Fastness to Washing - at 40°C - at 50°C - at 60°C - at 95°C - at 95°C	JIS L 0844A-1: 2011 JIS L 0844A-2: 2011 JIS L 0844A-3: 2011 JIS L 0844A-6: 2011 JIS L 0844A-7: 2011	Grade 1 to Grade 5 Grade 1 to Grade 5 Grade 1 to Grade 5 Grade 1 to Grade 5 Grade 1 to Grade 5
		Color Fastness to Washing	ISO 105 C10: 2006	Grade 1 to Grade 5
		Color Fastness to Domestic & Commercial Laundering	ISO 105 C06: 2010 AATCC 61: 2013 JIS L 0844 Method C: 2011 AS 2001 4.15: 2006 ISO 105 CO8: 2010 ISO 105 CO9: 2001	Grade 1 to Grade 5
		Color Fastness to Dry Cleaning	ISO 105 D01: 2010 AATCC 132: 2013	Grade 1 to Grade 5
		Color fastness to Water	ISO 105 E01: 2013 JIS L 846: 2004 CAN/CGSB 4.2 No. 20 AATCC 107: 2013	Grade 1 to Grade 5
		Color Fastness to Sea Water	ISO 105 E02: 2013 AATCC 106: 2013	Grade 1 to Grade 5
		Color Fastness to Perspiration (Acidic and Alkaline)	ISO 105 E04: 2013 AS 2001.4. E04: 2005 AATCC 15: 2013	Grade 1 to Grade 5

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		Color Fastness to Migration into PVC Coatings	ISO 105 X10: 1993	Grade 1 to Grade 5
		Color Fastness to phenolic yellowing	ISO 105 X18:2007	Grade 1 to Grade 5
		Color Fastness to Rubbing	ISO 105 X12: 2016 AS 2001.4.3: 1995 CAN /CGSB 4.2 No.22 AATCC 8: 2013	Grade 1 to Grade 5
		Color fastness to Chlorinated Pool Water	AATCC 162: 2011 ISO 105 E03: 2010	Grade 1 to Grade 5
		Color Fastness to Bleaching: Hypochlorite	ISO 105 NO1: 1993 IHTM 3.2.46 / Rev0/01.03	Grade 1 to Grade 5
		Color Fastness to Hydrogen Peroxide	IHTM 3.2.47 / Rev0/01.03 ISO 105 NO2: 1993 AATCC 101: 2013	Grade 1 to Grade 5
		Color Fastness to Hot Pressing	AATCC 133 :2013 ISO 105 X11: 1994	Grade 1 to Grade 5
		Color Fastness to water spotting	AATCC 104: 2014	Grade 1 to Grade 5
		Color Fastness to Dry Heat (Excluding Pressing)	AATCC 117: 2013 ISO 105-PO1 :1993(E)	Grade 1 to Grade 5
		Color Fastness to Dye Transfer in Storage	AATCC 163: 2013	Grade 1 to Grade 5
		Qualitative blend analysis	IS 667: 1981 (RA 2008)	Qualitative
		Qualitative blend analysis - Polyester and Cotton or Viscose	ISO 1833: 2006 (Method No. 11)	1 % to 100 %
		Qualitative blend analysis - Cotton and Viscose	IS 1889 Part (IV) IS 1979 (RA 2010)	1 % to 100 %

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		Blend analysis – Quantitative analysis of binary textile fiber mixtures & ternary fiber mixtures	EU Regulations 1007: 2011	1 % to 100 %
		Blend Analysis- Qualitative	AATCC 20: 2013	Qualitative
		Blend Analysis- Quantitative	AATCC 20A: 2014	1 % to 100 %
		pH of aqueous extract	ISO 3071: 2005 AATCC 81: 2012	1 to 14
2.	Finished Fabric/ Apparels/ Garments Made ups	Smoothness of seams in fabrics after repeated home laundering	AATCC 88B -2014 ISO 7770 - 2009	Rating 1 to Rating 5
		Smoothness appearance of fabrics after repeated home laundering	AATCC 124: 2014 ISO 7768: 2009	Rating 1 to Rating 5
		Retention of Creases in fabrics after repeated home laundering.	AATCC 88C - 2014 ISO 7769 - 2009	Rating 1 to Rating 5
		Skewness change in fabric and garment twist resulting from automatic home laundering.	AATCC 179 - 2012	Upto 15%
		Oil Repellency: Hydrocarbon Resistance	AATCC 118: 2013 ISO 14419: 2010	Grade 0 to Grade 8
		Soil Release: Oily Stain Release Method	AATCC 130: 2015	Grade 1 to Grade 5
		Absorbency of bleached textile fabrics	AATCC 79: 2014	0 Sec to 60 Sec
		Water Repellency – Spray test	AATCC 22: 2014 ISO 4920: 2012	Grade 0 to Grade 100 Grade 1 to Grade 5

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		Flammability of clothing textiles	16 CFR 1610: 2012 ASTMD 1230: 2011	Upto 90 Sec
		Burning behavior	BS EN 1103: 2005 EN ISO 6941	Upto 60 Sec
3.	Finished Fabrics	Dimensional Change of fabrics induced by free steam	BS 4323: 1979	(-)15 % to 15 %
		Wrinkle recovery of fabrics Appearance method	AATCC 128: 2013	Rating 1 to Rating 5
4.	Apparels/ Garments/Made ups	Appearance of apparel and other textile end products after repeated home launderings	AATCC 143: 2014 ISO 15487: 2009	Rating 1 to Rating 5
5.	Carpets & Rugs	Surface Flammability of carpets & rugs	16 CFR 1630: 2012 16 CFR 1631: 2012	3.2 mm to 203 mm
6.	Fabrics/Made ups/ Garment/ Apparels/Carpet & Rugs	Dimensional Stability after washing and drying	ISO 6330:2012 ISO 3759: 2011 ISO 5077 -2007 EN ISO 6330 - 2012 AATCC 135 – 2015 AATCC 150 - 2012 AS 2001 5.4 - 2005	(-)35 % to 35 %
		Dimensional Stability - Professional Care, Dry and Wet Cleaning	ISO 3175: Part- 1 / 2 - 2010 AATCC 158 - 2011	(-)35 % to 35 % (-)15 % to 15 %
7.	Terry fabrics & its product	Surface water absorption of terry fabrics (Water flow)	ASTMD 4772: (2009) (Reapproved 2013)	0.5 ml to 50 ml
8.	Textile and Textile Products/Toys and sports equipments, Prints	Free Formaldehyde	BS EN ISO 14184 – 1: 2011	10 mg/kg to 1000 mg/kg
		Released Formaldehyde	AATCC 112: 2014 ISO 14184-2: 2011	10 mg/kg to 1000 mg/kg /
		Heavy Metals Antimony Arsenic	EN 16711-1:2015	0.5 mg/kg to 1000 mg/kg 0.1 mg/kg to 1000 mg/kg

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		Cadmium Chromium Lead Mercury Zinc Copper Nickel Tin Barium Cobalt Iron Manganese Selenium Silver		0.1 mg/kg to 1000 mg/kg 0.5 mg/kg to 1000 mg/kg 0.1 mg/kg to 1000 mg/kg 0.02 mg/kg to 1000 mg/kg 0.5 mg/kg to 1000 mg/kg 0.5 mg/kg to 1000 mg/kg 0.5 mg/kg to 1000 mg/kg 0.5 mg/kg to 1000 mg/kg 0.5 mg/kg to 1000 mg/kg 0.5 mg/kg to 1000 mg/kg 0.5 mg/kg to 1000 mg/kg 0.5 mg/kg to 1000 mg/kg 0.5 mg/kg to 1000 mg/kg 0.5 mg/kg to 1000 mg/kg
		Heavy Metals Antimony Arsenic Lead Cadmium Chromium Cobalt Copper Nickel Mercury	16711-2:2015	0.1 mg/kg to 1000 mg/kg 0.1 mg/kg to 1000 mg/kg 0.1 mg/kg to 1000 mg/kg 0.1 mg/kg to 1000 mg/kg 0.1 mg/kg to 1000 mg/kg 0.1 mg/kg to 1000 mg/kg 0.1 mg/kg to 1000 mg/kg 0.1 mg/kg to 1000 mg/kg 0.1 mg/kg to 1000 mg/kg 0.02 mg/kg to 1000 mg/kg
		Heavy Metals Antimony Arsenic Barium Cadmium Chromium Lead Mercury Selenium	EN 71 Part 3 : 1995 ASTM F 963 - 11 (4.3.5.2) : 2013	0.5 mg/kg to 500 mg/kg 0.5 mg/kg to 500 mg/kg 0.5 mg/kg to 500 mg/kg 0.1 mg/kg to 500 mg/kg 0.2 mg/kg to 500 mg/kg 0.5 mg/kg to 500 mg/kg 0.05 mg/kg to 500 mg/kg 1 mg/kg to 500 mg/kg
		Chromium VI	SOP 3.2.91 : 2016	0.1 mg/kg to 100 mg/kg
		Dye identification	ISO/DIS 16373-1 :2014	Qualitative
		Chlorinated Organic	DIN 54232: 2010	0.5 mg/kg to 500 mg/kg

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		Carriers 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 Pentachlorotoluene 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-Tetrachlorobenzene 1,2,4,5-Tetrachlorobenzene Pentachlorobenzene		
		Triclosan in Textiles	SOP 3.2.109: 2016	0.5 mg/kg to 500 mg/kg
		Lindane in Textiles	SOP 3.2.110: 2016	0.5 mg/kg to 500 mg/kg
		PCP / TeCP/OPP in Textiles	DIN 53313: 1996 LMBG 82.02.8: 2001 SOP 3.2.99 : 2016	0.05 mg/kg to 100 mg/kg
		Banned Azo dyestuffs (Banned Amines) 4-Aminobiphenyl Benzidine 4-Chloro-O-Toluidine 2-Naphthylamine	EN 14362-1: 2012 EN 14362-3: 2012 ISO 17234: 2010	5 mg/kg to 1000 mg/kg

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		O-Aminobenzene 5-Nitro-o-toluidine 4-Chloroaniline 2,4 – Diaminoanisole 4,4'Diaminodiphenyl methane 3,3 Dichlorobenzidine 3,3 Dimethoxybenzidine 3,3 Dimethylbenzidine 3,3 Dimethyl-4,4' Diaminodiphenylmethane. p-Cresidine. 4,4' Methylene –bis-(2 Chloroaniline) 4,4' Oxydianiline 4,4' Thiodianiline 0-Toluidine 2,4 – Toluylendiamine. 2,4,5 Trimethylaniline. 0-Anisidine 4-Aminoazobenzene. 2,4 Xylidine. 2,6 Xylidine. 5-Chloro-2-methylaniline p-phenylenediamine N,N-Dimethylaniline Aniline		
		Lead Content in Surface Coatings	ASTM E 1645 - 2007 ASTM E 1613 -2004 16 CFR 1303 CPSC – CH – E 1003 - 09.1 :2011	1 mg/kg to1000 mg/kg

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		Total Lead Content	ASTM E 1645 - 2007 ASTM E 1613 – 2004 EPA 3050 B: 1996	0.5 mg/kg to 1000 mg/kg
		Glyoxal	SOP No. : 3.2.111: 2016	0.5 mg/kg to 500mg/kg
		Isocyanates 2,4-Tolyene Diisocyanates 2,6-Tolyene diisocyanates Diphenylmethane diisocyanates Tetramethylxylene Diisocyanates Isophorane diisocyanates Hexamethylene diisocyanate	SOP No. : 3.2.112: 2016	5mg/kg to 1000mg/kg
		Tinorganic compounds Monobutyl tin Dibutyl tin Tributyl tin Tetrabutyl tin Monooctyltin Dioctyltin Triphenyl tin Tricyclohexyl tin	ISO 17353: 2004	0.05 mg/kg to 100mg/kg
		Acrylamide	SOP No. : 3.2.113: 2016	5 mg/kg to 100 mg/kg
		Navy Blue colorant	DIN 54231: 2005	5 mg/kg to 1000mg/kg
		Polychlorinated biphenyls Monochlorobiphenyl Dichlorobiphenyl Trichlorobiphenyl Tetrachlorobiphenyl Pentachlorobiphenyl Hexachlorobiphenyl	SOP No. : 3.2.114: 2016	0.5 mg/kg to 1000mg/kg

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		Heptachlorobiphenyl Octachlorobiphenyl Nonachlorobiphenyl Decachlorobiphenyl		
		Short chain paraffines (C10-C13)	SOP No. : 3.2.108 : 2016	20 mg/kg to 1000 mg/kg
		Nonylphenol Nonylphenol 1 Ethoxylates Nonylphenol 2 Ethoxylates	SOP No- 3.2.115 : 2016	10 mg/kg to 1000 mg/kg
		Lead in Substrates in Children Products	CPSC CH E1002-8.3: 2012	0.5 mg/kg to 1000mg/kg
		Lead in Jewellery in children Products	CPSC CH E1001-8.2 :2012	0.5 mg/kg to 1000mg/kg
		Organically bound halides (Chlorine, Bromine & Iodine)	SOP No. 3.2.101 : 2016	0.2 mg/kg to 1000 mg/kg
		Nonylphenol ethoxylates (NPEO)/ Octylphenol ethoxylates (OPEO)	CEN N 1057: 2011 ISO 18254-1: 2016	10 mg/kg to 1000 mg/kg
		Phthalates Di-iso-nonylphthalate (DINP) Di-n-octylphthalate (DNOP) Di(2-ethylhexyl)-phthalate(DEHP) Di-iso-decylphthalate(DIDP) Butylbenzylphthalate(BBP) Diisobutyl phthalates Dibutylphthalate(DBP) Diiso hexyl phthalates	CPSC-CH-C1001-09.3: 2010 EN 15777: 2009	20 mg/kg to 1000 mg/kg

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		Di(2-methoxyethyl)-phthalates Di-n-hexyl phthalates		
		Phthalates Dibutylphthalate (DBP) Butylbenzylphthalate (BBP) Di(2-ethylhexyl)-phthalate(DEHP) Di-n-octylphthalate (DNOP) Di-iso-nonylphthalate (DINP) Di-iso-decylphthalate(DIDP) Diisobutyl phthalates Di-pentyl Phthalate Di-sio-heptyl phthalate Di-methoxyethyl phthalate Dimethyl Phthalate (DMP) Diethyl Phthalate Di-n-propyl Phthalate Di-n-Nonyl Phthalate Di-iso-octyl Phthalate (DIOP) Dicyclohexyl Phthalate	EN ISO 14389:2014	20 mg/kg to 1000 mg/kg
		Phthalates in children Products	CPSC CH C1001-09.3: 2010	1 mg/kg to 1000 mg/kg
		Polycyclic Aromatic Hydrocarbons in Textiles Naphthalene Acenaphthylene Acenaphthene	ZEK 01.4-08 :2012	0.2 mg/kg to 1000 mg/kg

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		Fluorene Phenanthrene Ananthracene Fluranthene Pyrene Benzo (a) anthracene Chrysene perylene d (12) Indeno (1,2,3 cd) pyrene Benzo (b) fluoranthene Benzo (k) fluoranthene Benzo (a) pyrene Dibenzo(ah)anthracene Benzo (ghi) pyrylene		
		Dimethylfumarate	CEN/ISO-TS 16186 : 2012	0.1 mg/kg to 500 mg/kg
		Dimethylformamide	CEN ISO/TS 16189 : 2013	5 mg/kg to1000 mg/kg
		PFOA/PFOS	SOP 3.2.104 : 2016	0.2 mg/kg to1000 mg/kg
9.	Zippers	Lead Content in Surface Coatings	ASTM E 1645 - 2007 ASTM E 1613 -2004 16 CFR 1303 CPSC – CH – E 1003 - 09.1 :2011	1 mg/kg to1000 mg/kg
		Total Lead Content	ASTM E 1645 - 2007 ASTM E 1613 – 2004 EPA 3050 B: 1996	0.5 mg/kg to 1000 mg/kg
		Isocyanates 2,4Tolyene Diisocyanates 2,6-Tolyene diisocyanates Diphenylmethane diisocyanates Tetramethylxylene Diisocyanates Isophorane	SOP No. : 3.2.112 : 2016	5mg/kg to 1000mg/kg

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		diisocyanates Hexamethylene diisocyanate		
		Tinorganic compounds Monobutyl tin Dibutyl tin Tributyl tin Tetrabutyl tin Monooctyltin Dioctyltin Triphenyl tin Tricyclohexyl tin	ISO 17353: 2004	0.05 mg/kg to 100mg/kg
		Acrylamide	SOP No. : 3.2.113 : 2016	5 mg/kg to 100 mg/kg
		Navy Blue colorant	DIN 54231: 2005	5 mg/kg to 1000mg/kg
		Ni releases	EN 1811 / EN 12472 :2011	(0.25 to 100) in extract
		Lead in Substrates in Children Products	CPSC CH E1002-8.3: 2012	0.5 mg/kg to 1000 mg/kg
		Lead in Jewellery in children Products	CPSC CH E1001-8.2 :2012	0.5 mg/kg to 1000mg/kg
		Nonylphenol ethoxylates (NPEO)/ Octylphenol ethoxylates (OPEO)	CEN N 1057: 2011 ISO 18254-1: 2016	10 mg/kg to 1000 mg/kg
II.	INKS, DYES & PIGMENTS			
1.	Inks, Dyes and Pigments	Banned Amines 4-Aminobiphenyl Benzidine 4-Chloro-O-Toluidine 2-Naphthylamine O-Aminobenzene 5-Nitro-o-toluidine. 4-Chloroaniline 2,4 – Diaminoanisole. 4,4'Diaminodiphenyl	EN 14362-1 :2012 annex F	5 mg/kg to 1000 mg/kg

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		methane. 3,3 Dichlorobenzidine. 3,3 Dimethoxybenzidine 3,3 Dimethylbenzidine 3,3 Dimethyl-4,4' Diaminodiphenyl methane. p-Cresidine. 4,4' Methylene –bis-(2 Chloroaniline) 4,4' Oxydianiline 4,4' Thiodianiline 0-Toluidine 2,4 – Toluylendiamine. 2,4,5 Trimethylaniline. 0-Anisidine 4-Aminoazobenzene. 2,4 Xylidine. 2,6 Xylidine 5-Chloro-2- methylaniline p-phenylenediamine N,N-Dimethylaniline Aniline		
		Polychlorinated biphenyls Monochlorobiphenyl Dichlorobiphenyl Trichlorobiphenyl Tetrachlorobiphenyl Pentachlorobiphenyl Hexachlorobiphenyl Heptachlorobiphenyl Octachlorobiphenyl Nonachlorbiphenyl	SOP No. : 3.2.114 : 2016	0.5 mg/kg to 1000 mg/kg

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		Decachlorobiphenyl		
		Total Heavy Metals	EPA 3050 B: 1996	
		Antimony		1 mg/kg to 500 mg/kg
		Arsenic		0.1 mg/kg to 500 mg/kg
		Cadmium		0.1 mg/kg to 100 mg/kg
		Chromium		1 mg/kg to 500 mg/kg
		Lead		0.5 mg/kg to 500 mg/kg
		Mercury		0.02 mg/kg to 500 mg/kg
		Zink		1 mg/kg to 2000 mg/kg
		Copper		1 mg/kg to 500 mg/kg
		Nickel		1 mg/kg to 500 mg/kg
		Tin		1 mg/kg to 500 mg/kg
		Barium		1 mg/kg to 500 mg/kg
		Cobalt		1 mg/kg to 500 mg/kg
		Iron		1 mg/kg to 3000 mg/kg
		Manganese		1 mg/kg to 1500 mg/kg
		Selenium		1 mg/kg to 500 mg/kg
		Silver		1 mg/kg to 500 mg/kg
		Nonylphenol ethoxylates (NPEO)/ Octylphenol ethoxylates (OPEO)	3.2.115 : 2016	10 mg/kg to 1000 mg/kg 10 mg/kg to 1000 mg/kg
		Determination of PFOA/PFOS	CEN/TS 15968 : 2010	0.5 mg/kg to 1000 mg/kg
		Unsulphonated Primary Aromatic amines	ETAD 212(7): 1983 DIN 55610: 1986	0.1 mg to kg to 500 mg/kg
		Quinoline	SOP: 3.2.128: 2016	5 mg/kg to 1000 mg/kg
		Biochemical Oxygen Demand	SOP: 3.2.129 : 2016	5 mg/l to 1000 mg/l
		Chemical Oxygen Demand	SOP: 3.2.132 : 2016	20 mg/l to 2000 mg/l

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III.	INDUSTRIAL & FINE CHEMICALS			
1.	Chemicals used in Leather Industry	Tinorganic compounds Monobutyl tin Dibutyl tin Tributyl tin Tetrabutyl tin Monooctyltin Diocetyl tin Triphenyl tin Tricyclohexyl tin Mono Methyl Tin (MMT) Di-PhenylTin (DPHT) Di-n-propyl Tin (DnPT)	ISO/TS 16179: 2012	0.05 mg/kg to 100 mg/kg
IV.	POLLUTION & ENVIRONMENT			
1.	Pollution and Environment (Waste – Liquid / Slurry/ Sludge/ Solid /Semi-Solid)	Organically bound halides (Chlorine, Bromine & Iodine)	EPA method 9562: 2004	0.2 mg/kg to 1000 mg/kg
		Biodegradability	OECD 302 B: 1992 ISO 9888: 1999	2 % to 99 %
		Biochemical Oxygen Demand	IS 3025 (Part 44): 1993	5 mg/l to 1000 mg/l
		Chemical Oxygen Demand	IS 3025 (Part 58): 2006	20 mg/l to 2000 mg/l
V.	PLASTIC & RESINS			
1.	Plastics and Other Polymeric Products	Phthalates Di-iso-nonylphthalate (DINP) Di-n-octylphthalate (DNOP) Di(2-ethylhexyl)-	CPSC-CH-C1001-09.3: 2010 EN 15777: 2009	20 mg/kg to 1000 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
		phthalate(DEHP) Di-iso-decylphthalate(DIDP) Butylbenzylphthalate(BBP) Diisobutyl phthalates Dibutylphthalate(DBP) Diiso hexyl phthalates Di(2-methoxyethyl)-phthalates Di-n-hexyl phthalates		
		Phthalates Dibutylphthalate (DBP) Butylbenzylphthalate (BBP) Di(2-ethylhexyl)-phthalate(DEHP) Di-n-octylphthalate (DNOP) Di-iso-nonylphthalate (DINP) Di-iso-decylphthalate(DIDP) Diisobutyl phthalates Di-pentyl Phthalate Di-sio-heptyl phthalate Di-methoxyethyl phthalate Dimethyl Phthalate (DMP) Diethyl Phthalate Di-n-propyl Phthalate Di-n-Nonyl Phthalate Di-iso-octyl Phthalate (DIOP) Dicyclohexyl Phthalate	EN ISO 14389:2014	20 mg/kg to 1000 mg/kg

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		BHT (Butylated hydroxytoluene) in Polybags	SOP: 3.2.117 : 2016	0.5 mg/kg to 500 mg/kg
		Phthalates in children Products	CPSC CH C1001-09.3: 2010	1 mg/kg to 1000mg/kg
VI.	LEATHER & LEATHER PRODUCTS			
1.	Finished & Semi finished Leather, Leather product & Accessories	pH	ISO 4045: 2008	1 to 14
2.	Leather & Leather Products	Heavy Metals Antimony Arsenic Barium Cadmium Chromium Lead Mercury Selenium	EN 71 Part 3 : 1995 ASTM F 963 - 11 (4.3.5.2) : 2013	0.5 mg/kg to 500 mg/kg 0.5 mg/kg to 500 mg/kg 0.5 mg/kg to 500 mg/kg 0.1 mg/kg to 500 mg/kg 0.2 mg/kg to 500 mg/kg 0.5 mg/kg to 500 mg/kg 0.05 mg/kg to 500 mg/kg 1 mg/kg to 500 mg/kg
		Tinorganic compounds Monobutyl tin Dibutyl tin Tributyl tin Tetrabutyl tin Monooctyltin Dioctyltin Triphenyl tin Tricyclohexyl tin Mono Methyl Tin (MMT) Di-PhenylTin (DPHT) Di-n-propyl Tin (DnPT)	ISO/TS 16179: 2012	0.05 mg/kg to 100 mg/kg
		Dimethylfumarate	CEN/ISO-TS 16186 : 2012	0.1 mg/kg to 500 mg/kg
		Dimethylformamide	CEN ISO/TS 16189 : 2013	5 mg/kg to 1000 mg/kg
		Chromium VI	ISO 17075: 2007	1.0 mg/kg to 100 mg/kg

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		Free Formaldehyde	ISO 17226-2: 2008	5 mg/kg to 500 mg/kg
		PCP / TeCP/OPP	DIN 53313: 1996 LMBG 82.02.8: 2001 SOP: 3.2.99 : 2016	0.05 mg/kg to 100 mg/kg
		Banned Azo dyestuffs (Banned Amines) 4-Aminobiphenyl Benzidine 4-Chloro-O-Toluidine 2-Naphthylamine O-Aminobenzene 5-Nitro-o-toluidine. 4-Chloroaniline 2,4 – Diaminoanisole. 4,4'Diaminodiphenyl methane. 3,3 Dichlorobenzidine. 3,3 Dimethoxybenzidine 3,3 Dimethylbenzidine 3,3 Dimethyl-4,4' Diaminodiphenylmethane. p-Cresidine. 4,4' Methylene –bis-(2 Chloroaniline) 4,4' Oxydianiline 4,4' Thiodianiline O-Toluidine 2,4 – Toluyldiamine. 2,4,5 Trimethylaniline. O-Anisidine 4-Aminoazobenzene. 2,4 Xylidine. 2,6 Xylidine. 5-Chloro-2-	ISO 17234: 2010	5 mg/kg to 1000 mg/kg

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		methylaniline p-phenylenediamine N,N-Dimethylaniline Aniline		
		N-Ethyl Pyrrolidone	3.2.119 : 2016	10 mg/kg to 1000 mg/kg
		pH	ISO 4045: 2008	1 to 14

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MECHANICAL TESTING

I.	TEXTILE (WOVEN & NON WOVEN)			
1.	Garment, Apparels, Fabric (Woven & Non-Woven)	Weight per unit area	ISO 3801: Method 5 1977 BS 2471: 2005 Method 1 ASTM D 3776/D3776M - 09a9 (2013) option 'C' AS 2001 2.13: 1987 DIN EN 12127: 1997	25 g/m ² to 1000 g/m ²
		Threads/Unit Length Ends/Picks	ISO 7211 Part 2: 1984 Method B, ASTM D 3775-12 CAN/CGSB 4.2 NO. 6- M89:1989	10 per dm to 1000 per dm (3/ Inch to 250 / Inch)
		Wales & Courses /Unit Length	BS 5441: 1988 ASTM D 3887 (Method 12)- 96 (2008) CAN/CGSB 4.2 NO. 7- M88 :1988	10 per dm to 1000 per dm (3/ Inch to 250 / Inch)
		Count of yarn	ISO 7211 Part 5: 1984 Section 2 Method A BS 2865: 1984 Section 2 Method A	6 Tex to 120 Tex (5 Ne to 100 ^S Ne)
		Twist in yarn removed from fabric	ISO 7211/4 – 1984(E)	400 TPM to 2000 TPM [10 TPI to 50 TPI]
		Crimp in yarn removed from fabric	ISO 7211/3 - 1984(en)	0.5 % to 50 %
		Tensile strength Strip method	ISO 13934: Part 1 2013 ASTM D 5035 –11(2015) AS 2.3.1:2001	10 N to 4990 N
		Tensile strength Grab Method	ISO 13934: Part 2 2014 ASTM D 5034- 09(2013) CAN/CGSB 4.2 NO. 9.2: 1990 AS 2.3.2:2001	10 N to 4990 N

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		Resistance to Slippage/ Seam Strength	ISO 13936-1 :2004(en) ISO 13935-2 :2014 CAN CGSB -4.2NO 32.1:1998, 32.2:1989 ASTM 1683 /1683M -11a ISO 13936-2 :2004 AS 2001-2.22 :2006	10 N to 4990 N 0.5 mm to 130 mm
		Tear Strength (Elmendorf)	ISO 13937: Part 1 2000 And Corr1: 2004 ASTM D 1424 – 09 (2013)	160 g to 6400 g
		Tongue (Single Rip)	ASTM D 2261-13 ISO 13937- Part 2(2000)	10 N to 4990 N
		Wing Rip	ISO 13937 – 3:2000	10 N to 4990 N
		Bursting Strength (Hydraulic Method)	BS EN ISO 13938: Part 1 :1999 CAN/CGSB-4.2 No.11.1-1994 ASTM D3786/D3786M – 13	100 kPa to 6200 kPa (1 kg/cm ² to 62 kg/cm ²)
		Resistance to Abrasion	BS EN ISO 12947: Parts 1/2/4: 2000 ASTM D 4966-12e' Option 1 AS 2001 2.25. /2,3,4: 2006	16 rubs to 80000 rubs Grade 1 to Grade 5
		Resistance to Pilling Pill box method	ISO 12945: Part 1 2000	Grade 1 to Grade 5
		Modified Martindale method	ISO 12945: Part 2 2000 ASTM D4970/D4970M – 16	Grade 1 to Grade 5
		Stretch and Recovery Stretch property of textile fabrics	ASTM D 6614 -07(2015) BS 14704 – 1: 2005	5 % to 100 % 5 N to 5000 N 2 % to 100 %
		Tension and elongation of Elastic fabrics	ASTM D 4964 -96 (2012 e')	9 N to 1200 N (2 lbs to 250 lbs) 2 % to 100 %

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		Stretch property of fabrics woven from stretch yarns	ASTM D 3107 – 07(2015)	2 % to 100 %
		Stretch property of Knitted fabrics having low power	ASTM D 2594 – (04)2012	2 % to 100 %
		Length of Cords and drawstrings on children's clothing	EN 14682: 2014	10 cm to 100 cm
2.	Fabric (Woven & Non-Woven)	Fabric width	ASTMD 3774-96 (2012)	1 cm to 160 cm
		Bow & Skew	ASTMD 3882-08 (2012)	0.5 % to 50 %
3.	Terry Towel	Terry towel and terry to Pile Ratio	EVS-EN 14697:2005	1:10
4.	Yarns	Crimp in yarn removed from fabric	ISO 7211/3 - 1984(en)	0.5 % to 50 %
		Lea Count with CV %	ASTM D 1907 /1907M – 12	6 Tex to 120 Tex (5 Ne to 100 ^S Ne)
		TPI	ISO 2061: 2015(en)	100 TPM to 2000 TPM (3 TPI to 50 TPI)
		TPI	ASTM D 1422/D 1422M -13	100 TPM to 2000 TPM (3 TPI to 50 TPI)
		Lea strength	ASTMD 1578: 93 (2011)	10 N to 4990 N [2 lbs to 600 lbs)
5.	Textile Floor coverings (Rugs, Carpet, runner, carpet tiles & wall to wall carpet	Weight per unit area	ISO 8543:1998	100 g/m ² to 5000 g/m ²
		Linear dimensions	EVS-EN 14159:2015	100 mm to 5000 mm
6.	Textile Accessories – Snap Fasteners	Unsnapping of Snap fasteners	ASTM 4846 - 96(2011)	1 N to 4990 N

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7.	Textile Accessories – Zippers	Puller Attachment. Closed End test. Top Stop test. Lateral Strength. Lateral Strength Of Open End attachment. Slider Locking test	ASTM D 2061 -07. (2013) EN 16732:2015 AS 2332: 2003	10 N to 4990 N

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