

Laboratory	TUV Rheinland (India) Pvt. Ltd., Plot No. 328, Udyog Vihar, Phase-IV, Gurgaon, Haryana		
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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I.	TEXTILE & TEXTILE AUXILIARIES			
1.	Textile & Textile Accessories	Color Fastness to Artificial Light	BS EN ISO 105-B02: 2014 EN ISO 105-B02: 2014 ISO 105-B02: 2014 AATCC 16.3: 2012 GB/T 8427: 2008	Blue wool standard 1 to 8 Qualitative (Grade 1 to 5)
		Color Fastness to Washing	ISO 105-C10: 2006 IS 105 (Part C10): 2006 AATCC 61: 2013 BS EN ISO 105-C08: 2010 ISO 105 C08: 2010 IS 105 (Part C08): 2001 BS EN ISO 105-C06: 2010 EN ISO 105-C06: 2010 GB/T 12490: 2014 ISO 105-C06: 2010/ SASO 2329: 2005 GB/T 3921: 2008 IS 105 (Part C06): 1994	Qualitative (Grade 1 to 5)
		Color Fastness to Dry Cleaning	BS EN ISO 105-D01: 2010 EN ISO 105-D01: 2010 ISO 105-D01: 2010/ SASO 2324: 2005 AATCC 132: 2013 GB/T 5711: 1997	Qualitative (Grade 1 to 5)
		Color Fastness to Water	BS EN ISO 105-E01: 2013 EN ISO 105-E01: 2013 ISO 105-E01: 2013 AATCC 107: 2013 AS 2001.4 E01: 2001 GB/T 5713: 2013	Qualitative (Grade 1 to 5)

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	Textile & Textile Accessories	Color Fastness to Sea Water	BS EN ISO 105-E02: 2013 EN ISO 105-E02: 2013 ISO 105-E02: 2013 AATCC 106:2013	Qualitative (Grade 1 to 5)
		Color Fastness to Chlorinated Water	BS EN ISO 105-E03: 2010 EN ISO 105-E03: 2010 ISO 105-E03: 2010 AATCC 162: 2011	Qualitative (Grade 1 to 5)
		Color Fastness to Perspiration	BS EN ISO 105-E04: 2013 EN ISO 105-E04: 2013 ISO 105-E04: 2013 AS2001.4.E04: 2005 AATCC 15: 2013 GB/T 3922: 2013 SASO 171/GS 1268: 2002	Qualitative (Grade 1 to 5)
		Color Fastness to Chlorine Bleach	ISO 105 N01: 1993	Qualitative (Grade 1 to 5)
		Color Fastness to Rubbing/Crocking	BS EN ISO 105:X12: 2002 EN ISO 105:X12: 2002 ISO 105:X12: 2001 AATCC 8: 2013	Qualitative (Grade 1 to 5)
		Organic Solvent Rubbing	AATCC 116: 2013 GB/T 3920: 2008 SASO 2330: 2005 SASO 2331: 2005	
		Color Fastness to Saliva	DIN 53160-1& 2: 2010 GB/T 18886: 2002	Qualitative (Grade 1 to 5)
		Color Fastness to Light And Perspiration	AATCC 125: 2013/ ISO 105 B07: 2009	Qualitative (Grade 1 to 5)

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	Textile & Textile Accessories	Assessment of Potential to Phenolic Yellowing	ISO 105 X18: 2007	Qualitative (Grade 1 to 5)
		Fiber Analysis	BS 4407: 1988 AATCC 20: 2013 AATCC 20 A: 2014 ISO 1833: 1977 (E)/ SASO 781/GS 431: 1994 ISO 1833-1: 2006 ISO 1833-2: 2006 ISO 1833-3: 2006 GB/T 2910.5: 2009 GB/T 2910.7: 2009 GB/T 2910.11: 2009 GB/T 2910.20: 2009	0.1 % to 100 %
		Banned Amines(With Reference to EU Regulation 2002/61/EEC And 76/769/EEC)	BS EN 14362-1: 2012 BS EN 14362-3: 2012 / GB/T 17592: 2011 GB/T 23344: 2009	5 mg/kg to 1000 mg/kg
		O-toluidine		
		P-Chloroaniline		
		Benzidine		
		P-Cresidine		
		2-Methoxyaniline		
		2,4,5-Trimethylaniline		
		Chloro-O-toluidine		
		2,4-toluylenediamine		
		2,4-Diaminoaniso		

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	Textile & Textile Accessories	2-Naphthylamine	BS EN 14362-1: 2012	
		2-Amino-4-Nitrotoluene	BS EN 14362-3: 2012 /	
		4-Aminobiphenyl	GB/T 17592: 2011	
		P-Aminoazobenzene	GB/T 23344: 2009	
		4,4'-Diaminodiphenylmethane		
		O-Aminoazotoluene		
		3,3'-Dimethyl 4,4'-Diaminodiphenylmethane		
		3,3'-Dimethylbenzidine		
		4,4'-Thidianiline		
		4,4'-Methylene Bis (2-Chloroaniline)		
		3,3'-Dichlorobenzidine		
		3,3'-Dimethoxybenzibenzidine		
		2,4-Xylidine		
		2,6-Xylidine		
		4,4'-Oxydianiline:		
		P-Phenylenediamine		
		Aniline		

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Textile & Textile Accessories	Heavy Metals:	EN 71 (Part 3): 2013 Amd. 1: 2014(E) IS 9873 (Part 3): 1999 ASTM F963: 2011 Clause 8.3	100 µg/kg to 2000000 µg/kg for all except for chromium VI – 1 µg/kg to 10000 µg/kg
		Aluminum		
		Antimony		
		Arsenic		
		Barium		
		Boron		
		Cadmium		
		Chromium (III) Chromium (VI)		
		Cobalt		
		Copper		
		Lead		
		Manganese		
		Mercury		
		Nickel		
		Selenium		
		Strontium		
		Tin		
		Organic Tin		
		Zinc		

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	Textile & Textile Accessories	Determination of pH of Aqueous Extract	AATCC 81: 2012 BSEN ISO 3071: 2006 ISO 3071: 2005/ EN ISO 3071: 2005 SASO 2144: 2003 GB/T 7573: 2009	1 to 14
		Formaldehyde	AATCC 112: 2014 BS EN ISO 14184-1: 2011/ SASO 2142:2003 BS EN ISO 14184-2: 2011 / SASO 2143: 2003 GB/T 2912.1: 2009 GB/T 2912.2: 2009	16 mg/kg to 3500 mg/kg
		Lead Contents in Surface Coating	16 CFR 1303: 2013 CPSC- CH-E1003-09.1: 2011	10 mg/kg to 10000 mg/kg
		Lead Content in Children's (Metal Product Including Children's Metal Jewelry.)	CPSC- CH-E1001-08.3: 2012	10 mg/kg to 10000 mg/kg
		Lead Content (in Plastic/ Glass/ Ceramic Samples)	CPSC- CH-E1002-08.3: 2012	10 mg/kg to 10000 mg/kg
		Phthalate	BSEN 14372: 2004 (Clause 6.3.2)	10 mg/kg to 10000 mg/kg
		Bis(2-Ethylhexyl) Phthalates	BSEN 15777: 2009 CPSC- CH-C1001-09.3: 2010	
		Di-N-Octyl-Phthalate	ISO 14389: 2014	
		Diisononyl Phthalate		
		Diisodecyl Phthalate		
		Butyl Benzyl Phthalate		

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	Textile & Textile Accessories	Di-N-Butyl-Phthalate	BSEN 14372: 2004 (Clause 6.3.2)	10 mg/kg to 10000 mg/kg
		Diisobutyl-Phthalate	BSEN 15777: 2009	
		Di-N-Hexyl-Phthalate	CPSC- CH-C1001-09.3: 2010	
		Diundecyl Phthalate	ISO 14389: 2014	
		Diisoheptyl-Phthalate		
		Dimethyl-Phthalate		
		Diethyl-Phthalate		
		Bis(2-Methoxyethyl) Phthalates		
		Diisopentyl Phthalate		
		Dipentyl Phthalate		
		N-Pentyl-Isopentyl Phthalate		
		Pentachlorophenol(PCP)	QMA 39.302.20 IND: 2015 (in House test method)	50 µg/kg to 100000 µg/kg
		Nickel Release	EN 12472: 2005 Amd. 1: 2009 EN 1811: 2011	0.05 µg/kg to 10 µg/cm ² /week
		Dimethylforamide (DMFA)	QMA 39.302.17 IND: 2015 (in House test method)	5 mg/kg to 1000 mg/kg
		Dimethylfumarate (DMFU)	QMA 39.302.18 IND: 2015 (in House test method)	80 µg/kg to 1000000 µg/kg

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	Textile & Textile Accessories	Alkylphenol(AP) Alkylphenolethoxylate (APEO) Nonyl Phenol Octyl Phenol Nonyl Phenol Ethoxylate Octyl Phenol Ethoxylate	QMA 39.302.16 IND: 2015 (in House test method)	AP(NP & OP) – 10 mg/kg to 500 mg/kg APEO(NPEO & OPEO) – 10 mg/kg to 1000 mg/kg
		Polyvinyl Chloride(PVC) Identification	QMA 39.302.33 IND: 2015 (in House test method)	NA
		Trichlorophenol(TRICP)/Tetrachlorophenol(TECP)	QMA 39.302.20 IND: 2015 (in House test method)	50 µg/kg to 100000 µg/kg
		Ortho Phenyl Phenol(OPP)	QMA 39.302.31 IND: 2015 (in House test method)	0.5 mg/kg to 100 mg/kg
		PFOS & PFOA Pentadecafluorooctanoic Acid Heptadecafluorooctanesulphonic Acid	QMA 39.302.21 IND: 2015 (in House test method)	0.001 µg/m ² to 10 µg/m ²
		Organotin(OTC) Dibutyltin –Dichloride Tetrabutyltin Di-N-Octyltin-Dichloride	ISO17353: 2004/ DIN 17353: 2005 / DIN CEN ISO/TS 16179: 2012	25 µg/kg to 50000 µg/kg

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Textile & Textile Accessories	Tricyclohexyltin-Chloride	ISO17353: 2004/ DIN 17353: 2005 / DIN CEN ISO/TS 16179: 2012	25 µg/kg to 50000 µg/kg
		Trioctyltin-Chloride		
		N-Butyltintrichloride		
		N-Octyltin-Trichloride		
		Tributyltin Chloride (TBTC)		
		Triphenyltin (Tpht)	ZEK 01.4: 08	100 µg/kg to 50000 µg/kg
		Poly Aromatic Hydrocarbons(PAH)		
		Acenaphthene		
		Acenaphthylene		
		Anthracene		
		Benzo(A)Anthracene,		
		1,2-Benzanthracene		
		Benzo(A)Pyrene		
		Benzo(B)Fluoranthene		
		Benzo(G,H,I)Perylene,		
		1,12-Benzoperylene		
		Benzo(K)Fluoranthene		
		Chysene		

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	Textile & Textile Accessories	Dibenzo(A,H)Anthracene, 1,2:5,6-Dibenzanthracene Fluorene Fluoranthene Ideno(1,2,3-C,D)Pyrene Naphthalene Phenanthrene Pyrene Benzo(E)Pyrene Benzo(J)Fluoranthene	ZEK 01.4: 08	100 µg/kg to 50000 µg/kg
		Allergenous Disperse Dyes (DD) And Carcinogenic Dyes (CD) Disperse Blue 3 Disperse Blue 7 Disperse Blue 26 Disperse Blue 35 Disperse Blue 102 (Technical) Disperse Blue 106 Disperse Blue 124	DIN 54231: 2005	4 mg/kg to 1500 mg/kg

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	Textile & Textile Accessories	Disperse Brown 1	DIN 54231: 2005	4 mg/kg to 1500 mg/kg
		Disperse Orange 1		
		Disperse Orange 37		
		Disperse Red 1		
		Disperse Red 11		
		Disperse Red 17		
		Disperse Yellow 1		
		Disperse Orange 3		
		Disperse Yellow 9		
		Disperse Yellow 39		
		Disperse Yellow 49		
		Acid Red 26		
		Basic Red 9		
		Basic Violet 14 HCL		
		Direct Black 38		
		Direct Blue 2b (Or 6)		
		Direct Red 28		
		Disperse Blue 1		

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Textile & Textile Accessories	Disperse Orange 11	DIN 54231: 2005	4 mg/kg to 1500 mg/kg
		Disperse Orange 149		
		Disperse Yellow 3		
		Disperse Yellow 23		
		Direct Brown 95		
		Basic Violet 3		
		Chlorinated Organic Carriers (COC)	DIN 54232: 2007	85 µg/kg to 20000 µg/kg
		AAA-4-Tetrachlorotoluene/ 4-Chlorobenzotrichloride		
		3-Chlorotoluene		
		1,3-Dichlorobenzene		
		1,2-Dichlorobenzene		
		2,6-Dichlorotoluene		
		1,2,4-Trichlorobenzene		
		2,4,5-Trichlorotoluene		
		2,3,6-Trichlorotoluene		
		1,2,4,5-Tetrachlorobenzene		
		A,A-2,6-Tetrachlorotoluene		
		Hexachlorobenzene		

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	Textile & Textile Accessories	2-Chlorotoluene	DIN 54232: 2007	85 µg/kg to 20000 µg/kg
		1,4-Dichlorobenzene		
		2-5-Dichlorotoluene		
		3,4-Dichlorotoluene		
		1,2,3-Trichlorobenzene		
		1,2,3,5-Tetrachlorobezene		
		1,2,3,4-Tetrachlorobenzene		
		Pentachlorobenzene		
		2,3,4,5,6-Pentachlorotoluene		
		4-Chlorotoluene		
		2,4-Dichlorotoluene		
		2,3-Dichlorotoluene		
		1,3,5-Trichlorobenzene		
		Cadmium Content	EN 1122: 2001	3 mg/kg to 3000 mg/kg
		Heavy Metal Using Sweat Sol.	QMA 39.302.32 IND: 2015 (in House test method)	5 µg/kg to 500000 µg/kg
		Determination of PBB's And PBDE's 3,3',4-Tribromodiphenyl Ether(BDE-035S)	IEC 62321 (1 st Edition): 2008	4 mg/kg to 1000 mg/kg

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	Textile & Textile Accessories	2,2',3,4,4'5,5'-Heptabromobiphenyl(BB-180)		4 mg/kg to 1000 mg/kg
		2,2',3,3',4,4'5,5',6-Nonabromobiphenyl(BB-206)		
		2,2',3,3',4,4'5,5'-Octabromobiphenyl(BB-194)		
		2,2',3,3',4,4'5,5',6-Nonabromodiphenyl Ether (BDE-206)		
		2,2',3,4,4'5,5'6-Octabromodiphenyl Ether (BDE-203)		
		3,3',4,4'-Tetrabromodiphenyl Ether(BDE-77)		
		2,2'4,4'5,5'-Hexabromobiphenyl(BB-153)		
		2,4,6- Tribromobiphenyl(BB-30)		
		4,4'- Dibromobiphenyl(BB-15)		
		2,2'3,3'4,4'- Hexabromodiphenyl Ether(BDE-128)		
		3,3'4,4',5- Pentabromodiphenyl Ether(BDE-126)		
		2,2',3,4,4',5,6-Heptabromodiphenyl Ether (BDE-181)		

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	Textile & Textile Accessories	Decabromodiphenyl Ether (BDE-209S) Decabromobiphenyl (B-209N) 2,2',4,5',6-Pentabromobiphenyl (B-103N) 2,2',4,5'-Tetrabromobiphenyl (B-049N-5MG) 3-Bromobiphenyl (B-002N) 4,4'-Dibromodiphenyl Ether (PBDE-15) 4-Bromodiphenyl Ether (PBDE-3)	IEC 62321 (1 st Edition): 2008	4 mg/kg to 1000 mg/kg
		Short Chain Chloroparaffins(SCCP) 51.5% SCCP 55.5% SCCP 63% SCCP	QMA 39.302.30 IND: 2015 (in House test method)	20 mg/kg to 10000 mg/kg
II.	LEATHER			
1.	Leather	Color Fastness to Rubbing	ISO 11640: 2012	Qualitative (Grade 1 to 5)
		Color Fastness to Water Spotting	ISO 15700: 1998	Qualitative (Grade 1 to 5)

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2.	Leather & Leather Accessories	Banned Amines (With Reference to EU Regulation 2002/61/EEC And 76/769/EEC) O-toluidine P-Chloroaniline Benzidine P-Cresidine 2-Methoxyaniline 2,4,5-Trimethylaniline Chloro-O-toluidine 2,4-toluylenediamine 2,4-Diaminoanisole 2-Naphthylamine 2-Amino-4-Nitrotoluene 4-Aminobiphenyl P-Aminoazobenzene 4,4'-Diaminodiphenylmethane O-Aminoazotoluene 3,3'-Dimethyl	ISO 17234 -1: 2010 ISO 17234-2: 2011	1 mg/kg to 1000 mg/kg

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Leather & Leather Accessories		4,4'-Diaminodiphenylmethane	ISO 17234 -1: 2010	1 mg/kg to 1000 mg/kg
		3,3'-Dimethylbenzidine	ISO 17234-2: 2011	
		4,4'-Thidianiline		
		4,4'-Methylene Bis (2-Chloroaniline)		
		3,3'-Dichlorobenzidine		
		3,3'-Dimethoxybenzibenzidine		
		2,4-Xylidine		
		2,6-Xylidine		
		4,4'-Oxydianiline:		
		P-Phenylenediamine		
		Aniline		
		Determination of pH of Aqueous Extract	EN 420: 2003 A1: 2009 Clause 4.3.2 ISO 4045: 2008	1 to 14
		Formaldehyde	ISO 17226-1: 2008 EN/ISO 17226-2: 2008	16 mg/kg to 3500 mg/kg
	Pentachlorophenol(PCP)	ISO 17070: 2015	15 µg/kg to 100000 µg/kg	
	Chromium VI Contents	EN 420: 2003 A1: 2009 Clause 4.3.3 ISO 17075: 2007	0.03 mg/kg to 20 mg/kg	

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	Leather & Leather Accessories	Dimethylforamide(DMFA)	QMA 39.302.17 IND: 2015 (in House test method)	5 mg/kg to 1000 mg/kg
		Dimethylfumarate(DMFU)	QMA 39.302.18 IND: 2015 (in House test method)	80 µg/kg to 1000000 µg/kg
		Alkylphenol(AP) / Alkylphenoethoxylate(APEO) :-	QMA 39.302.16 IND: 2015 (in House test method)	AP(NP & OP) – 1 mg/kg to 500 mg/kg APEO(NPEO & OPEO) – 10 mg/kg to 1000 mg/kg
		Nonyl Phenol		
		Octyl Phenol		
		Nonyl Phenol Ethoxylate		
		Octyl Phenol Ethoxylate		
		Trichlorophenol(TRICP)/ Tetrachlorophenol(TECP)	QMA 39.302.20 IND: 2015 (in House test method)	20 µg/kg to 100000 µg/kg
		Ortho Phenyl Phenol(OPP)	QMA 39.302.31 IND: 2015 (in House test method)	2 mg/kg to 100 mg/kg
		Organotin(OTC)	ISO 17353: 2004 / DIN 17353: 2005 /	5 µg/kg to 50000 µg/kg
		Dibutyltin –Dichloride	DIN CEN ISO/TS 16179: 2012	
		Tetrabutyltin		
		Di-N-Octyltin-Dichloride		
		Tricyclohexyltin-Chloride		
		Trioctyltin-Chloride		

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Discipline	Chemical Testing	Issue Date	15.04.2015
Certificate Number	T-2519	Valid Until	14.04.2017
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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Leather & Leather Accessories	N-Butyltintrichloride	ISO 17353: 2004 / DIN 17353: 2005 / DIN CEN ISO/TS 16179: 2012	5 µg/kg to 50000 µg/kg
		N-Octyltin-Trichloride		
		Tributyltin Chloride (TBTC)		
		Triphenyltin (TPHT)		
		Poly Aromatic Hydrocarbons(PAH)	ZEK 01.4: 08	100 µg/kg to 50000 µg/kg
		Acenaphthene		
		Acenaphthylene		
		Anthracene		
		Benzo(A)Anthracene,		
		1,2-Benzanthracene		
		Benzo(A)Pyrene		
		Benzo(B)Fluoranthene		
		Benzo(G,H,I)Perylene,		
		1,12-Benzoperylene		
		Benzo(K)Fluoranthene		
		Chysene		
		Dibenzo(A,H)Anthracene,		
		1,2:5,6-Dibenzanthracene		

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Leather & Leather Accessories	Fluorene	ZEK 01.4: 08	100 µg/kg to 50000 µg/kg
		Fluoranthene		
		Ideno(1,2,3-C,D)Pyrene		
		Naphthalene		
		Phenanthrene		
		Pyrene		
		Benzo(E)Pyrene		
		Benzo(J)Fluoranthene		
		Heavy Metal Using Sweat Sol.	QMA 39.302.32 IND: 2015 (in House test method)	8 µg/kg to 50000 µg/kg
		Short Chain Chloroparaffins(SCCP) 51.5% SCCP		
		55.5% SCCP		
		63% SCCP		

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