

<b>Laboratory</b>	<b>TUV Rheinland Bangladesh Pvt. Ltd., Plot 17, Road 113/A, Alauddin Tower (6<sup>th</sup> to 8<sup>th</sup> Floor), Gulshan-2, Dhaka, Bangladesh</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>05.08.2014</b>
<b>Certificate Number</b>	<b>T-2298</b>	<b>Valid Until</b>	<b>04.08.2016</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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#### **I. TEXTILE & TEXTILE AUXILIARIES**

<b>1.</b>	<b>Textile and Textile Accessories</b>	Azo Dyes(Banned Amines) 1) 4-Aminobiphenyl 2) Benzidine 3) 4-Chloro-O-Toluidine 4) 2-Naphthylamine 5) O-Aminoazobenzene 6) 5-Nitro-o-toluidine. 7) 4-Chloroaniline 8) 2,4'-Diaminoanisole. 9) 4,4'-Diaminodiphenyl methane 10) 3,3'-Dichlorobenzidine. 11) 3,3'-Dimethoxybenzidine 12) 3,3'-Dimethylbenzidine 13) 3,3'-Dimethyl-4,4'-Diaminodiphenylmethane. 14) p-Cresidine 15) 4,4' Methylene -bis-(2 Chloroaniline) 16) 4,4'-Oxydianiline 17) 4,4'-Thiodianiline 18) o-Toluidine 19) 2,4 - Toluyldiamine. 20) 2, 4,5Trimethylaniline. 21) o-Anisidine 22) 4-Aminoazobenzene. 23) 2, 4Xylidine. 24) 2,6 Xylidine	EN 14362-1: 2012 EN 14362-3: 2012	(5 to 1000) mg/kg
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	<b>Textile and Textile Accessories</b>	Phthalates 1) DBP: Dibutyl Phthalate 2) DIBP: Di-Isobutyl Phthalate 3) BBP: Benzylbutyl Phthalate 4) DEHP: Bis(2-Ethylhexyl) Phthalate 5) DNOP: Di-n-octyl Phthalate 6) DINP: Di-isononyl Phthalate 7) DIDP: Di-isodecyl Phthalate 8) DMEP: Methoxy ethyl Phthalate 9) DIPP: Di-isopentyl Phthalate 10) DIHP: 1,2 Dicarboxylic Acid 11) DHP: Dihexyl Phthalate 12) DEP: Diethyl Phthalate	In house validated method QMA 22.0006 BGD-2010 CPSC – CH – C1001 – 09.3: 2010	(10 to 20000) mg/kg
		Nickel Release in Metal/Alloy	EN 12472: 2005+A1 2009 & EN 1811: 2011	(0.02 to 1000) µg/cm <sup>2</sup> /week
		Lead in Surface Coating	In house validated method QMA 22.007 BGD: 2012 CPSC-CH-E1003-09.1: 2011 16 CFR Part 1303: 2011	(10 to 10000) mg/kg
		Lead in Non metal Children product	In house validated method QMA 22.005 BGD: 2012 CPSC-CH-E1002-8.3: 2012	(10 to 10000) mg/kg

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	<b>Textile and Textile Accessories</b>	Total Lead in children metal products and children metal jewelry	In house validated method: QMA 22.010 BGD: 2012 CPSC-CH-E1001-08.3: 2012	(10 to 10000) mg/kg
		Cadmium in Plastic/ Metal	EN-1122: 2001 In house validated Method: QMA 22.009: 2010	(10 to 10000) mg/kg
		Colorfastness to Light	AATCC 16: 2012 ISO 105 B02: 2013	Grade 1 to Grade 5 BWS Rating 1 to 8
		Alkyl Phenyl (AP) as [Octyl Phenyl (OP), Nonyl Phenyl (NP)] and Alkyl Phenylethoxylates (APEO) as [Octyl Phenylethoxylates (OPEO), Nonyl Phenylethoxylates (NPEO)]	In house validated method: QMA 22.0014 BGD: 2010	(10 to 10000) mg/kg
		Pentachlorophenol (PCP), Tetrachlorophenols (TeCP), Trichlorophenol (TCP) & Ortho-Phenylphenol (OPP) 1) 2,3,4 - Trichlorophenol 2) 2,3,5 - Trichlorophenol 3) 2,3,6 - Trichlorophenol 4) 2,4,5 - Trichlorophenol 5) 2,4,6 - Trichlorophenol 6) 3,4,5 - Trichlorophenol 7) 2,3,4,5 - Tetrachlorophenol	In house QMA 22.0014: BGD-2011 35 LMBG 82.2-8: 2001	(0.01 to 1000) mg/kg

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	<b>Textile and Textile Accessories</b>	8) 2,3,4,6 - Tetrachlorophenol 9) 2,3,5,6 – Tetrachlorophenol 10) Pentachlorophenol 11) Ortho-Phenylphenol	In house QMA 22.0014: BGD-2011 35 LMBG 82.2-8: 2001	(0.01 to 1000) mg/kg
		Organo Tin in Plastic 1) Monobutyl tin tri chloride 2) Monooctyltin di chloride 3) Monoheptyltin di chloride 4) Dibutyltin-dichloride 5) Di-n-octyltin-dichloride 6) Di-n-heptyltin dichloride 7) Tributyltin chloride 8) Triphenyltin chloride 9) Tri-n-propyltin chloride 10) Tricyclohexyltin-chloride 11) Tetra-butyltin 12) Tetra-n-propyltin	In house validated method: QMA 22.0015: BGD: 2011 ISO-17353: 2004	(0.01 to 1000) mg/kg
		Extractable Heavy metals 1) Lead 2) Cadmium 3) Mercury 4) Arsenic 5) Antimony 6) Nickel 7) Copper 8) Cobalt 9) Tin 10) Chromium 11) Chromium (VI)	In house validated method: QMA 22.0016: BGD: 2011 (based on ISO 105E04: 2013) by ICP-OES and UV-Vis Spectrophotometer ISO 17075: 2007	(0.01 to 1000) mg/kg

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	<b>Textile and Textile Accessories</b>	Colorfastness to Saliva & Perspiration	DIN 53160-1: 2010 DIN 53160-2: 2010	Qualitative Grade 1 to Grade 5
2.	<b>Textile and Textile Accessories including Silica Gel</b>	Dimethyl fumarate	In-house Validated method: QMA 22.0012 BGD: 2010	(0.05 to 1000) mg/kg
3.	<b>Textile Fabric &amp; Garment</b>	Determination of pH of aqueous extract	AATCC 81: 2006 & BS EN ISO 3071: 2005	1 to 13
		Formaldehyde Content	JIS-1041: 1993	(5 to 2000) mg/kg
		Free Formaldehyde	BS EN ISO 14184-1: 2011	
		Release Formaldehyde	BS EN ISO 14184-2: 2011 AATCC-112: 2008	
		Colorfastness to Washing	ISO 105 C06: 2010 AATCC 61: 2010	Qualitative Grade 1 to Grade 5
		Colorfastness to Rubbing	ISO 105 X12: 2002 BSEN ISO 105 X12: 2002 AATCC 8: 2007	Qualitative Grade 1 to Grade 5
		Colorfastness to Perspiration	ISO 105 E04: 2013 BS EN ISO 105 E04: 2013 AATCC 15: 2009	Qualitative Grade 1 to Grade 5
		Colorfastness to Water	AATCC 107: 2012 ISO 105 E01: 2013	Qualitative Grade 1 to Grade 5

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	<b>Textile Fabric &amp; Garment</b>	Colorfastness to Sea Water	AATCC 106: 2009 ISO E02: 2013	Qualitative Grade 1 to Grade 5
		CF to Light & Perspiration	ISO 105-B07: 2009 AATCC 125: 2009	BWS Rating 1 to 8 Grade 1 to Grade 5
		CF to Dry Cleaning	ISO 105 D01: 2010 AATCC 132: 2009	Qualitative Grade 1 to Grade 5
<b>II. LEATHER</b>				
<b>1.</b>	<b>Leather &amp; Leather Accessories</b>	Azo Dyes (Banned Amines) 1) 4-Aminobiphenyl 2) Benzidine 3) 4-Chloro-O-Toluidine 4) 2-Naphthylamine 5) O-Aminoazobenzene 6) 5-Nitro-o-toluidine. 7) 4-Chloroaniline 8) 2,4'-Diaminoanisole. 9) 4,4'-Diaminodiphenyl methane 10) 3,3'-Dichlorobenzidine. 11) 3,3'-Dimethoxybenzidine 12) 3,3'-Dimethylbenzidine 13) 3,3'-Dimethyl-4,4'-Diaminodiphenylmethane. 14) p-Cresidine 15) 4,4' Methylene-bis-(2 Chloroaniline) 16) 4,4'-Oxydianiline 17) 4,4'-Thiodianiline 18) o-Toluidine	BS EN ISO-17234-1: 2010 BS EN ISO-17234-2: 2010	(5 to 1000) mg/kg

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	<b>Leather &amp; Leather Accessories</b>	19) 2, 4 - Toluylendiamine. 20) 2, 4,5Trimethylaniline. 21) o-Anisidine 22) 4-Aminoazobenzene. 23) 2, 4 Xylidine. 24) 2,6 Xylidine	BS EN ISO-17234-1: 2010 BS EN ISO-17234-2: 2010	(5 to 1000) mg/kg
		Alkyl Phenyl (AP) as [Octyl Phenyl (OP), Nonyl Phenyl (NP)] And Alkyl Phenylethoxylates (APEO) as [Octyl Phenylethoxylates (OPEO), Nonyl Phenylethoxylates (NPEO)]	In house validated method: QMA 22.0014 BGD: 2010	(10 to 10000) mg/kg
		Pentachlorophenol (PCP), Tetrachlorophenols (TeCP), Trichlorophenol (TCP) & Ortho-Phenylphenol (OPP) 1) 2,3,4 - Trichlorphenol 2) 2,3,5 - Trichlorphenol 3) 2,3,6 - Trichlorphenol 4) 2,4,5 - Trichlorphenol 5) 2,4,6 - Trichlorphenol 6) 3,4,5 - Trichlorphenol 7) 2,3,4,5 - Tetrachlorophenol 8) 2,3,4,6 - Tetrachlorophenol 9) 2,3,5,6 - Tetrachlorophenol 10) Pentachlorophenol 11) Ortho-Phenylphenol	In house validated method: QMA 22.0014: BGD-2011 35 LMBG 82.2-8: 2001	(0.01 to 1000) mg/kg

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	<b>Leather &amp; Leather Accessories</b>	Dimethyl fumarate	In-house Validated method: QMA 22.0012 BGD: 2010	(0.05 to 1000) mg/kg
		Extractable Heavy metals 1) Lead 2) Cadmium 3) Mercury 4) Arsenic 5) Antimony 6) Nickel 7) Copper 8) Cobalt 9) Tin 10) Chromium 11) Chromium (VI)	In house validated method: QMA 22.0016: BGD: 2011 (based on ISO 105E04: 2013) by ICP-OES and UV-Vis Spectrophotometer ISO 17075: 2007	(0.01 to 1000) mg/kg

-X-X-X-X-X-X-X-X-X-X-X-X-