

Laboratory	Modern Testing Services (Bangladesh) Ltd., 280, East Narsinghpur Ashulia, Savar, Dhaka, Bangladesh		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.03.2015
Certificate Number	T-3346	Valid Until	30.03.2017
Last Amended on	-	Page	1 of 8

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, Garment & Accessories	Colour Fastness to Dry Cleaning	ISO 105 D01-2010 [E] AATCC 132-2013	Qualitative (Grade :1 to 5)
		Colour Fastness to Light	ISO 105 B02-2013 AATCC 16, Option 3 –2012	Qualitative (Rating : 1 to 8 Rating : 1 to 8 Rating : 1 to 8 Grade : 1 to 5)
		Colour Fastness to Chlorinated	ISO 105 E03-2010 AATCC 162-2011	Qualitative (Grade :1 to 5)
		Colour Fastness to Burnt Gas Fumes	BS EN ISO 105 G02-1993 AATCC 23-2010	Qualitative (Grade :1 to 5)
		Colour Fastness to Water Spotting	BS EN ISO 105 E07-2010	Qualitative (Grade :1 to 5)
		Colour Fastness To Non-chlorine Bleach	BS EN ISO-105C09:2003	Qualitative (Grade :1 to 5)
		Colour Fastness to Washing	ISO-105 C06:2010	Qualitative (Grade :1 to 5)
		Colour Fastness to Water	ISO-105 E01:2013	Qualitative (Grade :1 to 5)
		Flammability of General clothing textile	CAN/CGSB-4.2 NO. 27.5:2008 16 CFR 1610:2008	0 to 15 s
		Flammability of General clothing textile	16 CFR 1615:2010 16 CFR 1616:2010	0 to 10 inch

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Ashulia, Savar, Dhaka, Bangladesh

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing **Issue Date** 31.03.2015

Certificate Number T-3346 **Valid Until** 30.03.2017

Last Amended on - **Page** 2 of 8

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	Textile, Garment & Accessories	Extractable Heavy metals content	SOP # 0029 : 2014 (ISO 105E04:2013 & ICPMS)	Ag: (0.03 to 50) mg/kg; LOD: 0. 01 mg/kg
		Silver (Ag)		
		Arsenic (As)		As: (0.03 to 50) mg/kg; LOD: 0. 01 mg/kg
		Cadmium (Cd)		Cd: (0.03 to 50) mg/kg; LOD: 0. 01 mg/kg
		Barium (Ba)		Ba: (2 to 500) mg/kg; LOD: 0. 01 mg/kg
		Tin (Sn)		Sn: (2 to 500) mg/kg; LOD: 0. 01 mg/kg
		Copper (Cu)		Cu: (2 to 500) mg/kg; LOD: 0. 01 mg/kg
		Zinc (Zn)		Zn: (2 to 500) mg/kg ; LOD: 0. 01 mg/kg
		Lead (Pb)		Pb:(0.2 to125) mg/kg; LOD: 0. 01 mg/kg
		Nickel (Ni)		Ni: (0.2 to125)mg/kg; LOD: 0. 01 mg/kg
	Chromium (Cr)		Cr: (0.2 to125) mg/kg; LOD: 0. 01 mg/kg	
	Cobalt (Co)		Co: (0.2 to125)mg/kg; LOD: 0. 01 mg/kg	

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Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.03.2015
Certificate Number	T-3346	Valid Until	30.03.2017
Last Amended on	-	Page	3 of 8

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Textile, Garment & Accessories	Mercury (Hg)		Hg: (0.01 to 20) mg/kg; LOD: 0.01 mg/kg
		Chromium (Cr) VI		Cr (vi): (0.5 to 500) mg/kg; LOD: 0.01 mg/kg
		Antimony (Sb)		Sb: (1 to 300) mg/kg; LOD: 0.01 mg/kg
		Total Heavy Metal content		
		Silver (Ag)	SOP # 0040:2013 (Acid Digestion/ICP-MS)	Ag: (5 to 5000) mg/kg; LOD: 2 mg/kg
		Arsenic (As)		As: (5 to 5000) mg/kg; LOD: 2 mg/kg
		Cadmium (Cd)		Cd: (5 to 5000) mg/kg; LOD: 2 mg/kg
		Barium (Ba)		Ba: (5 to 5000) mg/kg; LOD: 2 mg/kg
		Tin (Sn)		Sn: (5 to 5000) mg/kg; LOD: 0.01 mg/kg
		Copper (Cu)		Cu: (5 to 5000) mg/kg; LOD: 2 mg/kg
		Zinc (Zn)		Zn: (5 to 5000) mg/kg; LOD: 2 mg/kg
		Lead (Pb)		Pb: (5 to 5000) mg/kg; LOD: 2 mg/kg

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Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.03.2015
Certificate Number	T-3346	Valid Until	30.03.2017
Last Amended on	-	Page	4 of 8

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Textile, Garment & Accessories	Nickel (Ni)	SOP # 0040:2013 (Acid Digestion/ICP-MS)	Ni: (5 to 5000) mg/kg; LOD: 2 mg/kg
		Chromium (Cr)		Cr: (5 to 5000) mg/kg; LOD: 2 mg/kg
		Cobalt (Co)		Co: (5 to 5000) mg/kg; LOD: 2 mg/kg
		Mercury (Hg)		Hg: (5 to 5000) mg/kg; LOD: 2 mg/kg
		Chromium (Cr) VI		Cr (vi): (5 to 5000) mg/kg; LOD: 2 mg/kg
		Antimony (Sb)		Sb: (5 to 5000) mg/kg; LOD: 2 mg/kg
2.	Textile accessories	Nickel Release	SOP # 0024a: 2012 (DIN EN 1811:2011 and 12472:2005)	(0.05 to 10) µg/cm ² /week.
3.	Textile & accessories Containing print on textile	Phthalates Content in Toys, childcare article & Textiles. Di-n-butyl phthalate (DBP) Benzyl-n-butyl phthalate (BBP) Di-2-ethylhexyl phthalate (DEHP) Di-n-octyl phthalate (DNOP) Di-isodecyl phthalate (DIDP) Di-isononyl phthalate (DINP)	SOP # 001:2010 (CPSC-CH-C1001-09.3:2010) SOP # 033:2013 (BS EN 15777:2009)	(50 to 8000) mg/kg LOD: 12.5 mg/kg

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Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.03.2015
Certificate Number	T-3346	Valid Until	30.03.2017
Last Amended on	-	Page	5 of 8

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4.	Textile & accessories containing plastic, Print, Liquid,	APEO/AP content: Octylpheno lethoxylates (OPEOs)	SOP # 0020: 2014 (Solvent Extraction/LCMS)	OPEOs: (50 to 2000) mg/kg LOD: 10 mg/kg
Nonylphenoethoxylates (NPEOs)			NPEOs: (50 to 2000) mg/kg LOD: 10 mg/kg	
Octylphenol (OP)			OP : (10 to 2000) mg/kg LOD: 10 mg/kg	
Nonylphenol (NP)			NP : (10 to 2000) mg/kg LOD: 10 mg/kg	
5.	Textile & accessories containing plastic	Isocyanates Content Hexamethylene di-isocyanate (HDI)	SOP # 0028: 2014 (Solvent Extraction /GCMS/LCMS)	HDI: (1 to1000) mg/kg LOD: 0.05 mg/kg
Isophorone di-isocyanate (IPDI)			IPDI: (1 to1000) mg/kg LOD: 0.05 mg/kg	
Tetramethylxylenedi-isocyanate (TMXDI)			TMXDI: (1 to1000) mg/kg LOD: 0.05 mg/kg	
Toluene di-isocyanate (Mixture of 2,4-TDI & 2,6-TDI)			2,4-TDI & 2,6 TDI: (1to 1000) mg/kg LOD: 0.05 mg/kg	
Diphenylmethane di-isocyanate (MDI)			MDI:(1to 1000) mg/kg LOD: 0.05 mg/kg	
Napthalene -1,5, di-isocyanate (1,5-NDI)		NDI: (1 to1000) mg/kg LOD: 0.05 mg/kg		

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Certificate Number T-3346 **Valid Until** 30.03.2017

Last Amended on - **Page** 6 of 8

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection	
	Textile & accessories containing plastic	Organotin Content	SOP# 0023:2014 (Solvent Extraction /GCMS)	MBT: 0.03-100 mg/kg LOD: 0.05 mg/kg	
		Monobutyl tin , MBT			
		Dibutyl tin , DBT			DBT: 0.03-100 mg/kg LOD: 0.05 mg/kg
		Tributyl tin , TBT			TBT: 0.03-100 mg/kg LOD: 0.05 mg/kg
		Triphenyl tin , TPhT			TPhT: 0.03-100 mg/kg LOD: 0.05 mg/kg
		Tetrabutyl tin, TTBT			TTBT: 0.03-100 mg/kg LOD: 0.05 mg/kg
		Tripropyl tin , TPT			TPT: 0.03-100 mg/kg LOD: 0.05 mg/kg
		Monooctyl tin , MOT			MOT: 0.03-100 mg/kg LOD: 0.05 mg/kg
		Dioctyl tin , DOT			DOT: 0.03-100 mg/kg LOD: 0.05 mg/kg
		Trioctyl tin, TOT			TOT: 0.03-100 mg/kg LOD: 0.05 mg/kg
	Tricyclohexyl tin , TCyT	TCyT: 0.03-100 mg/kg LOD: 0.05 mg/kg			

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Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.03.2015
Certificate Number	T-3346	Valid Until	30.03.2017
Last Amended on	-	Page	7 of 8

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6.	Textile Products	Pentachlorophenol (PCP)	SOP # 0027: 2014 (Solvent Extraction /GCMS)	PCP: (0.05 to 50) mg/kg LOD: 0.005 mg/kg
		Tetrachlorophenol (TeCP)		TeCP: (0.05 to 50) mg/kg LOD: 0.005 mg/kg
		Trichlorophenol (TCP)		TCP: (0.05 to 50) mg/kg LOD: 0.005 mg/kg
		Orthophenylphenol (OPP)		OPP: (0.05 to 50) mg/kg LOD: 0.005 mg/kg
II.	LEATHER			
1.	Leather Product	Free and released Formaldehyde content	SOP # 0025:2012 ISO 17226-2: (IULTCS IUC19):2008	(16 to 3500) mg/kg LOD: 5 mg/kg
		Chromium (VI) content	SOP # 0031: 2012 Based on (DIN EN ISO 17075-2007; DIN 53314- 1996)	(1 to100) mg/kg LOD: 0.25 mg/kg
		pH of aqueous leather extract	SOP # 0038 : 2011 (BS EN ISO 4045:2008)	1 to14
		APEO/AP content: Octylpheno lethoxylates (OPEOs)	SOP # 0020: 2014 (Solvent Extraction/LCMS)	OPEOs: (50 to2000) mg/kg LOD: 10 mg/kg
		Nonylpheno lethoxylates (NPEOs)		NPEOs: (50 to2000) mg/kg LOD: 10 mg/kg
		Octylphenol (OP)		OP : (10 to 2000) mg/kg LOD: 10 mg/kg

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Accreditation Standard ISO/IEC 17025: 2005

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Certificate Number T-3346 **Valid Until** 30.03.2017

Last Amended on - **Page** 8 of 8

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	Leather Product	Nonylphenol (NP)	SOP # 0020: 2014 (Solvent Extraction/LCMS)	NP : (10 to 2000) mg/kg LOD: 10 mg/kg
		Pentachlorophenol (PCP)	SOP # 0026: 2014 (Solvent Extraction /GCMS)	PCP: (0.05 to 50) mg/kg LOD: 0.005 mg/kg
		Tetrachlorophenol (TeCP)		TeCP: (0.05 to 50) mg/kg LOD: 0.005 mg/kg
		Trichlorophenol (TCP)		TCP: (0.05 to 50) mg/kg LOD: 0.005 mg/kg
		Orthophenylphenol (OPP)		OPP: (0.05 to 50) mg/kg LOD: 0.005 mg/kg
2.	Leather accessories	Estimation of Nickel Release	SOP # 0024a: 2012 (DIN EN 1811:2011 and 12472:2005)	(0.05 to 10) µg/cm ² /week.

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