

Laboratory	Modern Testing Services (India) Private Limited., New Siva Towers, No. 229-230, Kumaran Road, Tirupur, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	26.11.2014
Certificate Number	T-2182	Valid Until	25.11.2016
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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 AND TEXTILE AUXILIARIES				
1.	Textiles	pH Value	SOP-0003-2: 28/03/2013 SOP with reference to AATCC-81: 2012 SOP-0012: 02/05/2013 SOP with reference to BS EN 3071: 2006	2.0 to 12.0 ± 0.02
		Determination of Free and hydrolysed formaldehyde	SOP-0011: 4/12/2012 SOP with reference to JIS-L-1041: 2011	10 mg/kg to 3500 mg/kg LOQ: 10 mg/kg
		Determination of Released formaldehyde	SOP-0016: 03/06/2013 SOP with reference to AATCC-112: 2008 BS EN ISO 14184-2: 2011	
		Determination of Free and hydrolysed formaldehyde	SOP-0007-1: 01/07/2012 SOP with reference to BS EN ISO 14184- 1:2011	
		Formaldehyde spot test	SOP-0006: 01/06/2012 SOP with reference to AATCC-94: 2007	Qualitative
		Textiles — Methods for determination of certain aromatic amines derived from azo colorants	SOP-0013 :06/05/2013 SOP with reference to EN 14362-1: 2012	5 mg/kg to 1000 mg/kg LOQ: 5 mg/kg
		5-Nitro-O-Toluidine 3,3'-Dimethylbenzidine 4,4-methylene-Bis (o-chloroaniline) 2,4-Diaminotoluene		

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	Textiles	4,4-Oxydianiline 3,3-Dimethyl-4,4-diaminodiphenylmethane 4,4-methylenedianiline 4-methoxy-1,3-phenylenediamine 2-methoxy-5-methylaniline 4,4-Thiodianiline 4-Chloroaniline 2,45-Trimethylaniline 4-chloro-2-methylaniline P-phenylazoaniline O-Toluidine 4-Aminobiphenyl b-Naphthylamine 3,3-Dichlorobenzidine O-Anisidine 4,4-Benzidine 3,3-Dimethoxybenzidine 2,6-Dimethylaniline 2,4-Dimethylaniline O-aminoazotoluene	SOP-0015 :06/05/2013 SOP with reference to EN 14362 -3 : 2012	5 mg/kg to 1000 mg/kg LOQ: 5 mg/kg
		Determination of Phthalates Dibutyl Phthalate (DBP) Di-(2-ethylhexyl) phthalate (DEHP) BenzylButylPhthalate (BBP) Di-n-octyl phthalate (DnOP) Diisononylphthalate (DINP) Diisodecylphthalate (DIDP) Di-iso-butylPhthalate (DIBP) Di-(2-methoxyethyl)Phthalate (DMEP) Di-iso-pentylphthalate (DIPP)	SOP-0004 & SOP-0017 :01/06/2012 SOP with reference to EN 14372: 2004 BS EN 15777 :2009 CPSC-CH-C1001-09-3 – 2010	50 mg/kg to 100000 mg/kg LOQ: 50 mg/kg

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	Textile	N-pentyl-iso-pentylPhthalate (IPNPP). Di-n-pentylPhthalate (DNPP) Di-n-hexylPhthalate (DnHP) Di-iso-heptylPhthalate (DIHP) DiethylPhthalate (DEP) Di-heptyl,nonyl, Undecylphthalate (DHNUP)	SOP-0004 & SOP-0017 :01/06/2012 SOP with reference to EN 14372: 2004 BS EN 15777 :2009 CPSC-CH-C1001-09-3 – 2010	50 mg/kg to 100000 mg/kg LOQ: 50 mg/kg
		Extractable Heavy metals Chromium Arsenic Selenium Cadmium Barium Lead Antimony Mercury	SOP-0028 :03/01/2012 SOP with reference to ISO 105 E04 : 2013 Analysis by ICPOES SOP-0009;03/12/2012 SOP with reference to EN 71-3:2013	5 mg/kg to 500 mg/kg LOQ: 5mg/kg
		PVC	SOP-0026;24/05/2014 In house method Beilstein method	Qualitative
		Dimethyl Fumarate	SOP-0027 :24/03/2014 In house method-Analysis By GC-MS	0.1 to 100mg/kg LOQ:0.1mg/kg
		Total Lead Content	SOP-0002:20/07/2011 SOP with reference to USEPA 3051/3052 CPSC-CH-E1002-08-1 – 2010 CPSC-CH-E1001-08-1 – 2010 In house method- Microwave assisted acid digestion	10 mg/kg to 5000 mg/kg LOQ:10mg/kg

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	Textile	Lead in Surface coating	SOP-0001: 12/07/2011 SOP with reference to 16 CFR 1303-2010 CPSC-CH-E1003-09.1-2011	10 mg/kg to 5000 mg/kg LOQ: 10mg/kg
		Odour	SOP-0030: 24/03/2014 In house method	Qualitative (1 to 5 Grade)
2.	Apparel and Textiles	Color fastness to commercial laundering: Accelerated	AATCC 61-2013 (1A, 2A, 3A)	Qualitative (Grade 1.0 to 5.0)
		Color fastness to Crocking	AATCC 8: 2013	Qualitative (Grade 1.0 to 5.0)
		Colour fastness to Water	ISO 105-E01:2013 AATCC 107 : 2013	Qualitative (Grade 1.0 to 5.0)
		Colour fastness to Perspiration	AATCC 15: 2013 ISO 105 E04 : 2013	Qualitative (Grade 1.0 to 5.0)
		Fiber composition	AATCC 20 :2013 AATCC 20A: 2013 ISO 1833-Part 11: 1977	0 % to 100 %
		Colour fastness to Light	AATCC 16.3 ISO 105: BO2 2013	Qualitative (Grade 1.0 to 5.0)
		Colour fastness to Saliva	DIN 53160-2010 Section 35.LMBG 82.10	Qualitative (Grade 1.0 to 5.0)
		Colour fastness to Sea Water	AATCC 106-2013 ISO 105 E02: 2013	Qualitative (Grade 1.0 to 5.0)
		Colour fastness to Dry Cleaning	AATCC 132: 2013 ISO 105 D01:2010	Qualitative (Grade 1.0 to 5.0)

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	Apparel and Textiles	Colour fastness to Phenolic Yellowing	ISO 105x18-2010	Qualitative Grade 1.0 to 5.0
3.	Apparel and Textiles (Excluding - Pile Fabrics and Textile Floor Coverings)	Color fastness to Rubbing	BS EN ISO 105 - X12 : 2002 (Excluding -4.1.1)	Qualitative (Grade 1 to 5.0)
4.	Fabric, Garment & Made Ups	Spirality	ISO 16322 : 2005 AATCC 179: 2012	0 % to 50 %
		Appearance after washing	AATCC 124 :2011	Qualitative
		Dimensional Stability to Washing	AATCC 135 :2012 AATCC 150 :2012 ISO 6330:2012 ISO 5077:2011 ISO 3759: 2011 BS EN ISO 25077: 1994	(-)50 % to +50 %
5.	Metal Accessories (Safety Toys)	Migration of Certain elements Chromium Arsenic Selenium Cadmium Barium Lead Antimony Mercury	SOP-0009 :03/12/2012 SOP with reference to BS EN 71-3 2013 SOP-0010 :26/11/2012 SOP with reference to ASTM F 963-08-2011 (Clause 4.3.5.2)	5 mg/kg to 500 mg/kg LOQ: 5mg/kg

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6.	Metal Accessories	Release of Nickel	SOP-0021:03/01/2014 SOP with reference to BS EN 1811 – 2011 EN 12472 – 2011 + A1: 2009 BS EN 12472 – 2005	0.1 µg/cm ² /week to 100 µg/cm ² /week LOQ: 0.1 µg/cm ² /week
		Nickel Spot Test	SOP-0008 :01/07/2012 SOP with reference to PD CR 12471-2002	Qualitative
		Cadmium in Metal Jewelry	SOP-0031: 24/03/2014 SOP with reference to CPSC-CH-E1004-11: 2011	10 mg/kg to 5000 mg/kg LOQ: 10 mg/kg
7.	Metal Accessories/ Plastics, Rubber Polymers	Determination of Total Heavy Metals	SOP-0031:24/03/2014 In house method	5 mg/kg to 500 mg/kg LOQ: 5mg/kg
		Chromium	With ref to EPA 3050 B(Total digestion method Analysis by ICP-OES/AAS)	
		Arsenic		
		Selenium		
		Cadmium		
		Barium	SOP-0010 :26/11/2012	
		Lead	SOP with reference to ASTM F 963-08-2011	
		Antimony	(Clause 4.3.5.2)	
		Mercury		
		Total Lead Content	SOP-0002 :20/07/2011 SOP with reference to CPSC-CH-E1001-08.1; 2010	10 mg/kg to 5000 mg/kg LOQ: 10 mg/kg
		Lead in surface coating	SOP-0001 :12/07/2011 SOP with reference to 16 CFR 1303 CPSC-CH-E1003-09.1; 2011	10 mg/kg to 5000 mg/kg LOQ: 10 mg/kg

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8.	Heavy Metal-Packaging material	Arsenic Selenium Cadmium Barium Lead Antimony Mercury	SOP-0031:24/03/2014 In-house method With ref. to USEPA 3052 CHPA Surface Coating Materials Regulations (SOR 2011-14) & Toy Regulation (SOR 2011-17).	5 mg/kg to 5000 mg/kg LOQ: 10 mg/kg
9.	Plastics, Rubber Polymers	Cadmium by wet decomposition method	SOP-0005 :10/05/2012 EN 1122 – 2001 Microwave assisted acid digestion Analysis by ICP-OES/AAS	10 mg/kg to 500 mg/kg LOQ: 10 mg/kg
		Determination of Phthalates Dibutyl Phthalate (DBP) Di-(2-ethylhexyl) phthalate (DEHP) BenzylButylPhthalate (BBP) Di-n-octyl phthalate (DnOP) Diisononylphthalate (DINP) Diisodecylphthalate (DIDP) Di-iso-butylPhthalate (DIBP) Di-(2-methoxyethyl)Phthalate (DMEP) Di-iso-pentylphthalate (DIPP) N-pentyl-iso-pentylPhthalate (IPNPP). Di-n-pentylPhthalate (DNPP) Di-n-hexylPhthalate (DnHP) Di-iso-heptylPhthalate (DIHP) DiethylPhthalate (DEP) Di-heptyl,nonyl,undecylphthalate (DHNUP)	SOP-0004: & SOP-0017 : 01/06/2012 SOP with reference to EN 14372: 2004 BS EN 15777 :2009 CPSC-CH-C1001-09-3 – 2010	50 mg/kg to 100000 mg/kg LOQ: 50 mg/kg
			SOP-0004: & SOP-0017 : 01/06/2012 SOP with reference to EN 14372: 2004 BS EN 15777 :2009 CPSC-CH-C1001-09-3 – 2010	50 mg/kg to 100000 mg/kg LOQ: 50 mg/kg

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II.	LEATHERS			
1.	Leather	Chromium VI	SOP-0022:03/01/2014 SOP with reference to ISO 17075: 2007 EN 420: 2003 IUC 18: 1997 ISO 20344: 2011	3 mg/kg to 500 mg/kg LOQ: 1 mg/kg
		pH Value	SOP-0024:24/03/2014 SOP with reference to ISO: 4045 : 2008	2.0 to 12.0 ± 0.02
		Leather- Methods for determination of certain aromatic amines derived from azo colorants 5-Nitro-O-Toluidine 3,3'-Dimethylbenzidine 4,4-methylene-Bis(o-chloroaniline) 2,4-Diaminotoluene 4,4-Oxydianiline 3,3-Dimethyl-4,4-diaminodiphenylmethane 4,4-methylenedianiline 4-methoxy-1,3-phenylenediamine 2-methoxy-5-methylaniline 4,4-Thiodianiline 4-Chloroaniline 2,45-Trimethylaniline 4-chloro-2-methylaniline P-phenylazoaniline O-Toluidine 4-Aminobiphenyl	SOP-0014 & SOP-0015: 06/05/2013 SOP with reference to ISO 17234-1 : 2010 ISO 17234-2: 2011	5 mg to 1000 mg LOQ: 5 mg/kg

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	Leather	b-Naphthylamine 3,3-Dichlorobenzidine O-Anisidine 4,4-Benzidine 3,3-Dimethoxybenzidine 2,6-Dimethylaniline p-Phenylenedianiline Aniline 2,4-Dimethylaniline O-aminoazotoluene	SOP-0014 & SOP-0015: 06/05/2014 SOP with reference to ISO 17234-1 : 2010 ISO 17234-2: 2011	5 mg to 1000 mg LOQ: 5 mg/kg
		Odour	SOP-0030: 24/03/2014	Qualitative (1 to 5 Grade)

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