

Laboratory **SGS India Pvt. Ltd., Testing Laboratory - Consumer and Retail,
Ahmed Plaza, No. 38/1 & 38/2, New BBMP No. 88/45/45, Beretena
Agrahara, Begur Hobli, Hosur Main Road, Bangalore, Karnataka**

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|-----|----------------------------|-------------------------|---|--|

CHEMICAL TESTING

| I. TEXTILE MATERIALS | | | | |
|-----------------------------|--------------------------|---------------------------------|---|--------------|
| 1 | Fabrics /Garments | Colour Fastness to Washing | AATCC 61-2013 BS EN ISO 105 C06 2010 ISO-105 C06-2010 AS-2001.4.15 : 2006 (RA 2016) CAN/CGSB 4.2 NO.19.1-2004 (RA 2013) EN ISO 105 C06 :2010 DIN EN ISO 105 C06:2010-08 GB/T 3921:2008 | Grade 1 to 5 |
| | | Colour Fastness to Crocking | AATCC 8-2016 BS EN ISO 105 X12 : 2016 AS-2001.4.3.-1995 (RA 2016) CAN/CGSB 4.2 NO.22-2004 (RA 2013) DIN EN ISO 105 X12 : 2016-11 EN ISO105X12 : 2016 ISO-105 X12 : 2016 GB/T 3920:2008 | Grade 1 to 5 |
| | | Colour Fastness to Perspiration | AATCC 15-2013 ISO 105 E04 : 2013 BS EN ISO 105-E04 : 2013 AS-2001.4.E04-2005 (RA 2016) CAN/CGSB 4.2 NO.23-M90 (RA 2013) | Grade 1 to 5 |

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| | | | DIN EN ISO 105 E04:2013-08 EN ISO 105 E04 :2013 JIS L 0848 :2004 GB/T 3922 : 2013 | |
| | | Colour Fastness to Light | AATCC 16.3-2014 ISO 105 B02:2014 EN ISO 105 B02:2014 BS EN ISO 105 B02:2014 AS 2001.4.B02:2001 (RA 2016) GB/T 8427:2008 | Up to BWS 8 Grade 1 to 5 |
| | | Colour Fastness to Perspiration & Light (Combined action) | ISO 105 B07 : 2009 AATCC 125:2013 GB/T 14576: 2009 | Grade 1 to 5 |
| | | Colour Fastness to Water | AATCC 107-2013 ISO-105 E01-2013 BS EN ISO 105-E01-2013 AS-2001.4 E01 -2001 (RA 2016) CAN/CGSB 4.2 NO.20-M89 (RA 2013) DIN EN ISO 105 E01:2013-06 JIS L 0846 : 2004 EN ISO 105-E01:2013 GB/T 5713 : 2013 | Grade 1 to 5 |
| | | Colour Fastness to Sea Water | AATCC 106-2013 AS-2001.4.E02:2001 (RA 2016) CAN/CGSB 4.2 NO.21-M90 (RA 2013) DIN EN ISO 105 E02:2013-06 | Grade 1 to 5 |

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| | | | BS EN ISO 105 E02 : 2013 ISO 105 E02 : 2013 EN ISO 105 E02 :2013 GB/T 5714: 1997 | |
| | | Colour Fastness to Chlorinated Water | ISO-105 E03:2010 BS EN ISO 105-E03 : 2010 DIN EN ISO 105 E03 : 2010-08 EN ISO 105 E03 2010 AS /NZS 2001.4.5:1998 (RA 2016) GB/T 8433: 2013 | Grade 1 to 5 |
| | | Colour Fastness to Dry Cleaning | AATCC 132 : 2013 ISO 105- D01 : 2010 BS EN ISO 105 :D01 -2010 AS 2001.4.16 : 1981 (RA 2016) DIN EN ISO 105 D01 : 2010-10 EN ISO 105 D01 : 2010 GB/T5711:2015 | Grade 1 to 5 |
| | | Colour Fastness to Chlorine Bleach | ISO-105 N01-1993 AS-2001.4.11-1982 (RA 2016) DIN EN 20105 N01:1995-03 | Grade 1 to 5 |
| | | Colour Fastness to Non-Chlorine Bleach | ISO-105-N02:1993 AATCC-101:2013 (TEST-I,II& III) DIN EN ISO 105 N02:1995-05 BS EN ISO 105 N02 : 1995 EN ISO 105 N02 : 1995 AATCC-172:2010 | Grade 1 to 5 |

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|-----|----------------------------|---|--|--|
| | | Colour Fastness to Dye Transfer in Storage | AATCC 163:2013 JIS L 0854 : 2013 | Grade 1 to 5 |
| | | Domestic & Commercial Laundering-Oxidative Bleach Response Using a Non-Phosphate Reference Detergent Incorporating a Low Temperature Bleach Activator | BS EN ISO 105 C08: 2010 ISO 105 C08 : 2010 EN ISO 105 C08 : 2010 DIN EN ISO 105 C08 : 2010-08 ISO 105 C09 : 2001/ Amd 1 : 2003 BS EN ISO 105 C09 : 2003 EN ISO 105 C09 : 2003/ Amd 1 :2007 | Grade 1 to 5 |
| | | Solvent Spotting-Perchloroethylene | AATCC 157 : 2017 | Grade 1 to 5 |
| | | Phenollic Yellowing | ISO 105 X18 : 2007 EN ISO 105 X18 : 2007 BS EN ISO 105 X18 : 2007 | Grade 1 to 5 |
| | | Fiber Analysis | ASTM D 276 -12 AS 2001.7:2005 (RA 2016) In accordance with EU No 1007/2011 AATCC 20A-2017/20-2013 ISO-1833-1:2006/ Cor 1 :2009 GB/T 2910:2009 | 1 to 100% |
| | | Colour Fastness to Saliva Colour Fastness to Sweat | DIN-53160-1:2010-10 GB/T 18886: 2002 DIN 53160-2:2010-10 | Qualitative |
| | | CMC Calculation of Small Colour Difference of Textiles | ISO 105 J01 : 1997 ISO 105 J03 : 2009 AATCC 173 : 2015 | 0 to 20 DE cmc |

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| | | Visual Assessment of Colour Difference of Textiles | AATCC 9 : 2017 | Grade 1 to 5 |
| | | Wrinkle Recovery of Fabrics : Appearance Method | AATCC 128 - 2017 ISO 9867 :2009 ISO 2313: 1972 AATCC 66 - 2017 | Grade 1 to 5 |
| | | Dimensional Stability to Washing | ISO 3759:2011 ISO 5077:2007/6330(2012) BS EN ISO 3759:2011 BS EN ISO 5077-2008/6330 – 2012 EN ISO 3759:2011 EN ISO 5077:2008/6330-2012 AATCC 135-2015 AATCC 150-2012 DIN EN ISO 3759:2011-08 DIN EN ISO 5077:2008-04/ DIN EN ISO 6330:2013-02 AS 2001.5.4:2005 GB/T 8628- 2013 GB/T 8629- 2017 GB/T 8630- 2013 | (-)10 to 30% |
| | | Appearance Retention, Fabric smoothness, Seam smoothness, Crease retention after repeated Home Laundering | AATCC 88C-2014 AATCC 88B-2014 AATCC 124-2014 ISO 15487: 2009 ISO 7770 : 2009 ISO 7768 : 2009 ISO 7769 : 2009 | Grade 1 to 5 |
| | | Dimensional Stability to Dry Cleaning | ISO 3175-1& 2:2017 (Method A) AATCC 158-2016 | (-)30% to 30% |

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| | | | (Excluding Finishing) | |
| | | Colour Fastness to Ozone | AATCC 109-2016 | Grade 1 to 5 |
| | | Colour Fastness to Water Spotting | AATCC 104-2014 | Grade 1 to 5 |
| | | Colour Fastness to Sodium Hypochlorite Bleach In Home Laundering | AATCC 188-2017 | Grade 1 to 5 |
| | | Colour Fastness to Chlorinated Pool Water | AATCC 162-2011 | Grade 1 to 5 |
| | | Colour Fastness to Washing with Soap or Soap and Soda | ISO 105 C10: 2006 EN ISO 105 C10: 2007 BS EN ISO 105 C10: 2007 | Grade 1 to 5 |
| | | Determination of Spinality after Laundering | ISO 16322-1:2005 ISO 16322-2:2005-Cor1:2007 ISO 16322-3:2005 AATCC 179-2017 BS ISO 16322-1:2005 BS ISO 16322-3:2005 GB/T22849-5.1.2.7:2014 | 0 to 30% |
| II. | HAZARDOUS & RESTRICTED CHEMICALS | | | |
| 1. | Textile & Textile Products | pH Value of aqueous extract | AATCC-81: 2016 ISO-3071: 2005 BS EN 3071: 2006 EN 1413: 1998 GB/T 7573: 2009(GB 18401:2010 (5.1) DIN EN ISO 3071: 2006 | 2 to 12 |
| | | Formaldehyde Qualitative identification content (Spot test) | AATCC-94:2012 | Qualitative |

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|-----|--|---|--|--|
| 2. | Textile& textile products, Prints | Formaldehyde Content (Free and Hydrolyzed) | JIS-L-1041 : 2011 BS EN ISO – 14184-1:2011 DIN EN ISO 14184- 1: 2011 § 64 LFGB, BVL B 82.02-1: 1985 GB/T 2912: 2009 (GB 18401:2010 (5.1)) ISO 14184-1:2011 | 5 mg/kg to 2000 mg/kg |
| | | Release Formaldehyde content | AATCC – 112 : 2014 GB/T 2912.2: 2009 BS EN ISO – 14184-2:2011 DIN EN ISO 14184- 2: 2011 ISO 14184-2:2011 | 5 mg/kg to 2000 mg/kg |
| 3. | Textile& Textile Products, Prints, Zipper | Forbidden Amines: Methylene Bis (2-chloraniline) Dichloro benzidene Dimethoxy benziene Methylene (Di-o-toluidine) Thio di aniline Dimethyl benzidene Oxy di aniline Methylene dianiline Benzidine 4-Amino bi phenyl 2-Naphthyl amine 4-Chloro o-toluidine 4-Methoxy M-phenylenediamine 5-methyl o-anisidine 2,4,5-Trimethyl aniline | BS EN 14362 -1 : 2003 BS EN 14362 –2 : 2003 § 64 LFGB, BVL B 82.02.2: 2004; § 64 LFGB, BVL B 82.02.4: 2004; § 64 LFGB, BVL B 82.02.2 :2013 EN 14362 -1 : 2012 ISO 24362-1-2014 ISO 24362-3-2014 § 64 LFGB, BVL B 82.02.15 :2013 EN 14362 -3 : 2012 § 64 LFGB, BVL B 82.02-09: 2008] JIS L 1940-3 :2014 JIS L 1940-1 :2014 IS 15570: 2005 | 4 mg/kg to 2000 mg/kg |

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|-----|--|---|--|--|
| | | Parachloroaniline O-Anisidine Toluene 2,4-diamine 2,6-Xylidine 2,4-Xylidine O-Toluidine 4-amino azo benzene *O-Aminoazotoluene 5-Nitro-O-Toluidine | ISO 14362-1:2017 ISO 14362-3:2017 GB/T 17592:2011 [GB 18401:2010 (5.1)] GB/T 23344:2009 [GB 18401:2010 (5.1)] | |
| 4. | Textile & Textile Products, Prints, Zipper, Leather, Toys & Other Accessories | Phthalates : Dibutyl phthalate Benzyl Butyl phthalate Bis 2 ethyl hexyl phthalate Di octyl phthalate Diiso nonyl phthalate Diiso decyl phthalate Bis (2-methoxyethyl) Phthalate Di n pentyl phthalate n pentyl isopentyl phthalate Diisobutyl phthalate Di-n-Hexyl phthalate Di Isoheptyl Phthalate Dimethyl Phthalate Diethyl Phthalate Di Cyclohexyl phthalate Di Undecyl Phthalate Di -C7-11-(lineary and branched)-alkyl Phthalate(DHNUP) Di iso pentyl phthalate 1,2- | SO-IN-CRS-TE-009-1 Issue No.01,Dated Jan,2017 SO-IN-CRS-TE-009-2 Issue No.01,Dated Jan,2017 SO-IN-CRS-TE-009-3 Issue No.01,Dated Jan,2017 SO-IN-CRS-TE-009-4 Issue No.01,Dated Jan,2017 SO-IN-CRS-TE-009-5 Issue No.01,Dated Jan,2017 SO-IN-CRS-TE-009-6 Issue No.01,Dated Jan,2017 EN 14372: 2004 BS EN 14372:2004] CPSC-CH-C1001-09-4:2017] ISO 14389:2014; | 30 mg/kg to 500000 mg/kg |

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|-----|--|--|---|--|
| | | Benzenedicarboxylic acid, dipentylester, branched and linear(DPP) Dihexyl Phthalate Di-(2-propylheptyl) Phthalate Dipropyl Phthalate Diphenyl Phthalate Diheptyl Phthalate Diisooctyl Phthalate Dibenzyl phthalate Dinonyl Phthalate Didecyl Phthalate Diisohexyl Phthalate | EN 15777-2009 GBT 20388 - 2016 In house Method/Analysis by GCMS | |
| 5. | Textile & Textile Products, Plastic & Other Accessories, Toys & Other Accessories | Phthalates : Dibutyl phthalate Benzyl Butyl phthalate Bis 2 ethyl hexyl phthalate Di octyl phthalate Diiso nonyl phthalate Diiso decyl phthalate Bis (2-methoxyethyl) Phthalate Di n pentyl phthalate n pentyl isopentyl phthalate Diisobutyl phthalate Di-n-Hexyl phthalate Di Isoheptyl Phthalate Dimethyl Phthalate Diethyl Phthalate Di Cyclohexyl phthalate | ASTM D 3421-75 | 30 mg/kg to 500000 mg/kg |

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|-----|--|---|---|--|
| | | Di Undecyl Phthalate Di -C7-11-(lineary and branched)-alkyl Phthalate(DHNUP) Di iso pentyl phthalate 1,2- Benzenedicarboxylic acid, dipentylester, branched and linear(DPP) Dihexyl Phthalate Di-(2-propylheptyl) Phthalate Dipropyl Phthalate Diphenyl Phthalate Diheptyl Phthalate Diisooctyl Phthalate Dibenzyl phthalate Dinonyl Phthalate Didecyl Phthalate Diisohexyl Phthalate | ASTM D 3421-75 | 30 mg/kg to 500000 mg/kg |
| 6. | Textile& Textile Products, Other , (Foot wear Accessories), | Phthalates: Dibutyl phthalate Benzyl Butyl phthalate Bis 2 ethyl hexyl phthalate Di octyl phthalate Diiso nonyl phthalate Diiso decyl phthalate Bis (2-methoxyethyl) Phthalate Di n pentyl phthalate n pentyl isopentyl | ISO/TS 16181-2011] | 30 mg/kg to 500000 mg/kg |

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|-----|---|---|---|--|
| | | phthalate Diisobutyl phthalate Di-n-Hexyl phthalate Di Isoheptyl Phthalate Dimethyl Phthalate Diethyl Phthalate Di Cyclohexyl phthalate Di Undecyl Phthalate Di -C7-11-(lineary and branched)-alkyl Phthalate(DHNUP) Di iso pentyl phthalate 1,2- Benzenedicarboxylic acid, dipentylester, branched and linear(DPP) Dihexyl Phthalate Di-(2-propylheptyl) Phthalate Dipropyl Phthalate Diphenyl Phthalate Diheptyl Phthalate Diisooctyl Phthalate Dibenzyl phthalate Dinonyl Phthalate Didecyl Phthalate Diisohexyl Phthalate | ISO/TS 16181-2011] | 30 mg/kg to 500000 mg/kg |
| 7. | Textile& Textile Products, Prints, Zipper, Paint , Other Accessories | PVC | SO-IN-CRS-TE-010-1 Issue No.01,Dated Jan,2017 | Sample contains PVC / Sample does not contain PVC (>10%) (>10 %) |

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|-----|--|-----------------------------|--|--|
| 8. | Textile& Textile Products, Prints, Zipper, Leather, Toys & Other Accessories, | Total Lead content | SO-IN-CRS-TE-028-1 Issue No.01,Dated Jan,2017 In house method- Microwave assisted acid digestion CPSC-CH-E1002-08-3-2012 CPSC-CH-E1001-08-3-2012 GB/T 30157:2013 | 5 mg/kg to 10000 mg/kg |
| 9. | Textile& Textile Products, Prints, Zipper, Plastic Accessories, Leather ,Toys & Other Accessories | Total Cadmium content | SO-IN-CRS-TE-028-1 Issue No.01,Dated Jan,2017 In house method- Microwave assisted acid digestion GB/T 30157:2013 | 5 mg/kg to 10000 mg/kg |
| 10. | Textile& Textile Products, Prints, Zipper, Plastic Accessories, Leather ,Toys & Accessories Other (Metal Accessories | Lead in surface coating | SO-IN-CRS-TE-028-3 Issue No.01,Dated Jan,2017 16 CFR 1303 CPSC-CH-E1003-09.1-2011 | 5 mg/kg to 10000 mg/kg |
| 11. | Textile& Textile Products, Prints, Zipper, Plastic Accessories, Leather ,Toys & Accessories Other (Metal Accessories | Cadmium in surface coating | SO-IN-CRS-TE-028-3 Issue No.01,Dated Jan,2017 16 CFR 1303 | 5 mg/kg to 10000 mg/kg |
| 12. | Leather Products, Textile & Textile Products, (Leather Accessories | pH Value of aqueous extract | ISO: 4045 : 2008 BS EN ISO 4045: 2008 DIN EN ISO 4045: 2008 | 2 to 12 |

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| 15. | Textile/Leather Products (Metal Accessories) | Nickel spot test | FD CR 12471-2002 PD CR 12471-2002 | Present/Absent |
| | | Cadmium in Metal Jewelry | CPSC-CH-E1004-11:2011 | 2 mg/kg to 2000 mg/kg |
| 16. | Textile & Textile products, Prints, Plastic Accessories, Zipper, Leather, Toys & Other Accessories | Cadmium by wet decomposition method | SO-IN-CRS-TE-28-1 Issue No.01, Dated Jan, 2017 EN 1122 – 2001 EPA 3052: 1996/ EPA 3051: 2007; | 5 mg/kg to 10000 mg/kg |
| 17. | Paint Accessories | Total Lead content Total Cadmium content | ASTM 1613-2012/ 1645-2007 | 5 mg/kg to 10000 mg/kg |

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| <u>MECHANICAL TESTING</u> | | | | |
| I. | TEXTILE MATERIALS | | | |
| 1. | Yarn/ Fabric | Yarn count | SO-IN-CTS-C02-QU-001 (2012) ASTM D 1907/ D 1907M-12 ISO 7211-5:1984 | 3 to 150 Ne |
| 2. | Yarn | Breaking Strength of Yarn Skein form | ASTM D 1578: 93 (2016) | 5 kg to 225 kg |
| | | Single yarn strength | ASTM D 2256/ D 2256M-10 (2015) ISO 2062: 2009 | 5 kg to 100 kg |
| | | Twist in Single yarns by Untwist Retwist method Twist in Yarns by Direct counting method | ASTM D 1422/ D 1422M-13 ASTM D1423-16 | 2 to 80 twist per inch(TPI) |
| 3. | Fabrics/ Garments | Oil repellency | AATCC 118-2013 | 0 to 8 Grade |
| | | Determination of the slippage resistance of yarns at a seam in woven fabrics | ISO 13936-1:2004 ISO 13936-2:2004 CAN/CGSB-4.2 No.32.1-98 (RA 2013) AS 2001.2.22-2006 (RA 2016) BS EN ISO 13936-1:2004 BS EN ISO 13936-2:2004 ASTMD 1683/1683M-17e1 | 50 N to 4500 N and 1mm to 12mm |
| | | Tensile Properties (Grab Method) | ASTM D 5034-09(2017) ISO 13934-2: 2014 BS EN ISO 13934-2 : 2014 AS 2001-2.3.2-2001 (RA 2016) CAN/CGSB-4.2 No.9.1- | 50 N to 4500 N |

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| | | | M90(RA 2013) EN ISO 13934-2: 2014 | |
| | | Tensile Properties (Strip Method) | ASTM D 5035- 11(2015) ISO 13934-1 :2013 BS EN ISO 13934-1: 2013 EN ISO 13934-1 : 2013 CAN/CGSB-4.2 No.9.2- M90(RA 2013) AS 2001.2.3.1-2001 (RA 2016) GB/T 3923.1: 2013 | 50 N to 4500 N |
| | | Seam tensile properties of fabrics and made-up textile articles. Determination of maximum force to seam rupture using the strip method | ISO 13935-1:2014 ISO 13935-2:2014 BS EN ISO 13935-1:2014 BS EN ISO 13935-2: 2014 ASTMD 1683/1683M-17e1 | 50 N to 450 N |
| | | Textiles - Determination of mass per unit area | ISO 3801:1977(83) EN 12127:1997 DIN EN 12127:1997-12 BS EN 12127:1998 CAN/CGSB-4.2No.5.1-M90 (RA 2013) AS2001.2.13:1987(RA 2016) ASTM D 3776/ D 3776 M-09a (2017) | 20 g/m ² to 500 g/m ² |
| | | Construction (Woven) | ISO 7211-2 : 1984 BS EN 1049-2 : 1994 DIN EN 1049 -2 : 1994-02 ASTM D 3775-17 EN 1049-2 : 1993 AS 2001.2.5 TEST C:1991 (RA 2016) | 10 to 300 Threads/Inch |

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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 |
|-----|----------------------------|-----------------------------------|---|--|
| | | Construction (Knitted) | EN 14971 : 2006 NF EN 14971 : 2006 BS EN 14971 : 2006 BS 5441 : 1988 AS 2001.2.6 TEST C : 2001 (RA 2016) | 10 to 300 Threads/Inch |
| | | Measuring Bow & Skew | ASTM D 3882-08 (2016)e1 BS 2819 :1990 +A2:2016 | 0% to 20% |
| | | Tearing Strength (Elmendorf) | ASTM D 1424-09 (2013)e1 ISO 13937-1 :2000/ Cor1:2004 AS 2001.2.8 :2001 (RA 2016) CAN/CGSB-4.2 No12.3-2005(RA 2013) BS EN ISO 13937-1 :2000 | 260 g to 5700 g |
| | | Tearing Strength (Single Rip) | ASTM D 2261-13 (2017)e1 | 260 g to 5700 g |
| | | Whiteness of textiles | AATCC 110-2015 ISO 105J02:1997/Cor 1:1998 | 50 units to 200 units |
| | | Flammability Apparels | 16 CFR 1610 ASTM D 1230-17 GB/T 14644:2014 | 1s to 40s |
| | | Water Repellency | AATCC 22 : 2017 ISO 4920 : 2012 BS EN ISO 4920 : 2012 EN ISO 4920 : 2012 AS 2001.2.16 : 1987 (RA 2016) | Rating 0 to 100 (Qualitative) Rating 0 to 5 (Qualitative) |
| | | Water Resistance: Rain Test | AATCC 35 : 2013 | 5g + or > 5g |
| | | Pilling Resistance (ICI pill Box) | ISO 12945-1 : 2000 BS EN ISO 12945-1:2001 | Grade 1 to 5 |

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|-----|----------------------------|---|---|--|
| | | Pilling (Modified Martindale) | BS EN ISO 12945-2 : 2000 EN ISO 12945-2 : 2000 ISO 12945-2:2000 | Grade 1 to 5 |
| | | Pilling (Martindale method) | ASTM D 4970/D4970M-16 e3 | Grade 1 to 5 |
| | | Pilling (Random Tumble pilling) | ASTM D 3512 /D3512M-16 | Grade 1 to 5 |
| | | Standard Test Method for Surface Water Absorption of Terry Fabrics (Water Flow) | ASTM D 4772-14 AATCC 79:2014 | 0 to 50 ml 0 to 60s; > 60s |
| | | Standard test method for stretch properties of fabrics | ASTM D 2594-04 (2016) ASTM D 3107-07(2015) ASTM D6614-07(2015) ASTM D 5278/ D 5278M-09 (2017) BS EN 14704-1:2005 EN 14704-1:2005 | 2% to 100% |
| | | Fabric width | ASTM D3774-96(2016) AS 2001.2.12 -1987 (RA 2016) ISO 22198 :2006 BS EN 1773:1997 EN 1773:1996 | 15 cm to 200 cm |
| | | Wrinkle recovery of Woven Fabrics: Recovery Angle | AATCC 66: 2017 AS 2001.2.20-2004 (RA 2016) | 0 to 180° |
| | | Hydraulic bursting strength of textile fabrics- Diaphragm bursting strength tester method | ASTM D 3786/ D 3786M-18 BS EN ISO 13938-1 :1999 EN ISO 13938-1 :1999 ISO 13938-1 :1999 | 140 kPa to 1240 kPa (20 psi to 180 psi) |
| | | Abrasion resistance of textile fabrics | ASTM D 4966-12 (2016) AS 2001.2.25.1/2/3/4:2006 | Option 1: 0 to 99999 Rubs |

**Rozina
Convenor**

**Anuja Anand
Program Manager**

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| | | (Martindale Abrasion tester method) | (RA 2016) ISO 12947-1/3/4:1998/Cor1:2002 ISO 12947-2: 2016 BS EN ISO 12947-1/3/4:1999 BS EN ISO 12947-2: 2016 EN ISO 12947-1/3/4 :1998 EN ISO 12947-2: 2016 | Option 2: Grade 1 to 5 Option 3: 0.5% to 40 % |
| | | Tear strength Trapezoid procedure | ASTM D 5587-15 | 1 kgf to 25 kgf (2 lbf to 50 lbf) |
| | | Tension & Torque test | ASTM F963-17-Part 8.8 & 8.9 | Torque:10 cNm to 90 cNm Tension: 2 N to 1000 N |
| 4. | Garments | Impact resistance of plastic sew through flange buttons | ASTM D 5171-15 | Qualitative – Visual examination |
| 5. | Garments -Snap Buttons, Other attachments. | Attachment strength (push pull tester) | 16 CFR 1500.52 EN 71-1: 2014 (Section 8.2/ 8.3/ 8.4) BS EN 71-1: 2014 (Section 8.2/ 8.3/8.4) CEN/TR 16792 : 2014 GB 31701:2015 (Appendix A) | Failure at fixed load (90N) |
| 6. | Zipper | Slide fasteners – Zippers specifications | EN 16732:2015 BS EN 16732:2015 ASTM D 2061-07(2013) | 20 N to 500 N |
| 7. | Garments/snap fastener mock | Resistance to Unsnapping of Snap Fasteners | ASTM D 4846 -96(2016) | 1 N to 50 N |

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| II. | TOYS AND SIMILAR PRODUCTS | | | |
| 1. | Toys/ Other Articles | Sharp point | 16 CFR 1500.48 ASTM F 963-17-Part 4.9 GB/T 31702:2015 | Qualitative |
| 2. | Toys/ Other Articles | Small parts | 16 CFR 1501 ASTM F 963-17-Part 4.6 | Qualitative |
| 3. | Metal/Glass Edge in Toys | Sharp edge | 16 CFR 1500.49 ASTM F 963-17-Part 4.7 GB/T 31702:2015 | Qualitative |