

Laboratory	SGS India Private Limited, Consumer Testing Services-Laboratory, No. 134, 2nd Floor, Sivashakthi Nagar, College Road, Tirupur, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	08.11.2015
Certificate Number	T-0355	Valid Until	07.11.2017
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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
I. TEXTILE MATERIALS				
1.	Textiles (Fabric & Yarn)	Linear Density	SO-IN-CTS-C02-QU-001 (Version 3.2) ASTM D1907/D1907 M-12 ASTM D 1059: 2001 ISO 7211-5: 1984 BS ISO 7211-5: 1984 ISO 2060: 1994 BS EN ISO 2060: 1995 DIN EN ISO 2060: 1995 NF EN 14970: 2006 EN 14970: 2006 DIN EN 14970: 2006 BS EN 14970: 2006	5 tex to 590 tex (1 s to 120 s Ne)
2.	Textiles (Yarn)	Twist in Yarn	ISO 17202: 2002 ASTM D 1422: 2013 IS 832: 1985 (2006) ISO 2061: 2010 BS EN ISO 2061: 2010 DIN EN ISO 2061: 2010 ASTMD1423: 02 (RA 2008) BS ISO 17202: 2002	2 twist /cm to 30 twist /cm
		Breaking Strength of Yarn in Skein Form	ISO 6939: 1988 ASTM D1578: 93(2011)	50 N to 1000 N (10 lbf to 250 lbf)
3.	Textiles (Fabric)	Fabric Count (Woven)	ASTM D3775: 2012 BSEN 1049-2: 1994 EN 1049-2: 1993 DIN EN 1049-2: 1994 ISO 7211-2: 1984 (Method:A)	10 Threads/cm to 110 Threads/cm 25 Threads/inch to 280 Threads/inch

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	Textiles (Fabric)	Fabric Count (Knits)	CAN/CGSB4.2 No.6-M89 CAN/CGSB 4.2 No.6: 2013 ASTMD-3887: 96 (RA 2008) BS 5441: 1988 CAN/CGSB 4.2, No.7 M88 BS EN 14971: 2006 DIN EN 14971: 2006 EN 14971: 2006	(3 to 25) wales & Course /cm (7 to 60) wales & Course /inch
		Fabric Weight Per Unit Area	SO-IN-CTS-C02-QU-002 (Version 3.1) ISO 3801(Method 5): 1977 EN 12127: 1997 DINEN 12127: 1997 BS EN 12127: 1998 CAN/CGSB-4.2 No.5.1 M90 AS 2001.2.13: 1987 ASTM D 3776/D3776M -09 (Option- C)	20 g/m ² to 550 g/m ²
4.	Textiles (Fabric & Garment)	Bursting Strength Ball Bursting	CAN/CGSB 4.2 No.11.2 M89 AS 2001.2.19: 1988 JIS L1096: 2010 ASTM D6797: 2007 ISO 13938- 2: 1999 BS EN ISO-13938 - 2: 1999	50 N to 1000 N 90 kPa to 950 kPa (13 psi to 180 psi)
		Diaphragm Tester (Pneumatic Machine)	EN ISO-13938 -2: 1999 ASTMD-3786: 2013 ASTMD-3786: 2013 CAN/CGSB 4.2 No.11.1 M-94 BS EN ISO-13938 -1: 1999 EN ISO-13938 -1: 1999 ISO 13938-1: 1999	
		Hydraulic Machine	AS 2001 2.4: 1990	

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	Textiles (Fabric & Garment)	Breaking Strength	ASTMD 5034: 2009 (2013) ISO 13934-2: 2014 BS EN ISO 13934-2: 2014 EN ISO 13934-2: 1999 CAN/CGSB 4.2 No. 9.2 M90 AS 2001.2.3.2: 2001 AS 2001.2.3.1: 2001 ASTMD – 5035: 2011 ISO 13934-1: 2013 CAN/CGSB 4.2 No. 9.1 M90	20 N to 3000 N
		Grab Method		
		Strip Method	BS EN ISO 13934-1: 2013 DIN EN ISO 13934-1: 1999 EN ISO 13934-1: 2013	
		Seam Slippage	ISO 13936-2: 2004 BS EN ISO 13936-2: 2004	5 N to 500 N & 1 mm to 20 mm
		Fixed Load	ISO 13936-1: 2004 BS EN ISO 13936-1: 2004	
		Fixed Opening	EN ISO 13936-1: 2004 EN ISO 13936-2: 2004 AS 2001.2.22-2006 ASTMD 1683: 2011 CAN CGSB-4.2No.32.1-98	
		Seam Strength	ASTMD 1683: 2011 ISO 13935-1: 2014 ISO 13935-2: 2014 BS EN ISO 13935-1: 2014 BS EN ISO 13935-2: 2014 EN ISO 13935-1: 2014 EN ISO 13935-2: 2014 CAN/CGSB-4.2 No. 32.2-M89 AS 2001.2.20: 2004	5 N to 500 N

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5.	Textiles (Fabric & Garment)	Elastic Properties	ASTM D2594: 2004 (2012) ASTM D3107: 2007(2011) ASTM D4964: 96 (2012) ASTM D5278: 2009 DIN 53835 (Part 13): 1983 ASTM D6614: 2007 BS EN 14704-1: 2005 EN 14704-1: 2005 DIN EN 14704 -1: 2005 NF EN 14704 -1: 2005 EN 14704-3: 2006 BS EN 14704-3: 2006 DIN EN 14704-3: 2006 NF EN 14704-3: 2007	Stretch 1 % to 200 % Recovery & Unrecovered Elongation Upto 100 %
		Stitch Length	BS 5441: 1988 EN 14970: 2006 NF EN 14970: 2006 DIN EN 14970: 2006 BS EN 14970: 2006	2 mm to 10 mm
		Bow & Skew of Fabrics	ASTM D3882: 2008 (RA 2012) BS 2819: 1990	0.1 % to 30 %
		Fabric Width	ASTM D3774: 96 (RA 2012) AS 2001.2.12: 1987 JIS L 1096: 2010 ISO 22198: 2006	2 cm to 200 cm
		Type of Weave	ISO 3572: 1976	Qualitative (Visual Assessment)
		Thickness	ISO 5084: 1996 BSEN ISO 5084: 1997	0.2 mm to 6.5 mm

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6.	Textiles (Garment & Accessories)	Zipper Strength Puller Attachment Strength Top Stop Strength Lateral Strength Lateral Strength of Open End Attachment Slider Locking Strength Bottom Stop Strength Strength of Open End Open End – Single Stringer	BS 3084: 2006 ASTM D 2061: 2007 AS 2332: 2003	10 N to 1000 N
		Holding Strength of Prong-Ring Attached Snap Fasteners	ASTM D7142: 05 (RA 2011)	20 N to 500 N
		Resistance To Unsnapping of Snap Fasteners	ASTM D4846: 96(2011)	5 N to 80 N (0.5 kgf to 8 kgf)
		Snapping Pressure of Snap Fasteners	AATCC TS013	0.1 kgf to 25 kgf
		Small Parts (Use & Abuse Tests -Tension &Torque)	16 CFR 1501, 16 CFR 1500.51, 52 & 53- e&f: 2010 EN 71 (Part 1): 2014 Clause. 8.2, 8.3 & 8.4 BS EN 71 (Part 1): 2014 Clause. 8.2, 8.3 & 8.4 NF EN 71 (Part 1) Clause. 8.2, 8.3 & 8.4 : 2014 ASTM F963: 2011 Clause. 4.6, 8.8 & 8.9 BS 7907: 2007	Qualitative 5 N to 500 N
		Strength of Attached Components		

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	Textiles (Garment & Accessories)	Determination of Sharp Point	16 CFR 1500.48 EN 71 (Part 1): 2014, Clause. 8.12 BS EN 71 (Part 1): 2014 Clause. 8.12 DIN EN 71 (Part 1): 2014 Clause. 8.12 NF EN 71 (Part 1): 2014 Clause. 8.12 ASTM F963: 2011 Clause. 4.9	Qualitative
		Determination of Sharp Edge	16 CFR 1500.49 EN 71 (Part 1): 2014 Clause. 8.11 BS EN 71 (Part 1): 2014 Clause. 8.11 DIN EN 71 (Part 1): 2014 Clause. 8.11 NF EN 71 (Part 1): 2014 Clause. 8.11 ASTM F963: 2011 Clause. 4.7	Qualitative

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