

Laboratory Nissenken Quality Evaluation India Pvt. Ltd., F-209, EPIP, Sitapura Industrial Area, Jaipur, Rajasthan

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6571

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Validity 23.11.2018 to 22.11.2020

Last Amended on --

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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CHEMICAL TESTING

I.	TEXTILE MATERIALS			
1.	Fabric (Woven, Nonwoven and Knitted) Garment and Apparel Yarn and Cord	Colour Fastness to Water	JIS L 0846 – 2004 (RA 2010) ISO 105 E01: 2013 AATCC-107:2013	Qualitative (Grade 1 to 5)
		Colour Fastness to Perspiration	JIS L 0848 – 2004 (RA 2010) ISO 105 E04: 2013 AATCC-15:2013	Qualitative (Grade 1 to 5)
		Colour Fastness to Rubbing	JIS L0849 -2013 ISO 105 X12-2016 AATCC-8:2016	Qualitative (Grade 1 to 5)
		Colour Fastness to Laundering	ISO105 C06: 2010 AATCC 61 :2013 (1A)	Qualitative (Grade 1 to 5)
		Colour Fastness to Washing	ISO 105 C10: 2006 JIS L0844: 2011 Method A and B	Qualitative (Grade 1 to 5)
		pH of aqueous extract	ISO 3071:2005 AATCC 81: 2016 JIS L1096 (8.37):2010	1 to 14
		Transfer of Dye During Storage	AATCC-163:2013	Qualitative (Grade 1 to 5)

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<u>MECHANICAL TESTING</u>				
I.	TEXTILE MATERIALS			
1.	Fabric (Woven) Garment and Apparel	Tearing Strength	JIS L 1096 (8.17.4): 2010 (Method D) ISO 13937-1 : 2000 ASTM D1424-09	240 gf to 5440 gf 2.35 N to 53.3 N
		Seam Strength	JIS L1093-2011(Method A-1) ISO 13935-Part-2 : 2014 ASTM D1683/ 1683M-2017	10 N to 5000 N 1 kgf to 510 kgf 2.2 lbf to 1124 lbf
		Seam Slippage	JIS L1096 (8.23.1): 2010 (Method-B) ISO 13936-Part-1 : 2004 ASTM D1683/ 1683M-2017	0.5 mm to 76 mm 10 N to 5000 N 1 kgf to 510 kgf 2.2 lbf to 1124lbf
2.	Fabric (Woven) Garment and Apparel Fabric (Knitted)	Tensile Strength (Strip Method)	JIS L1096 (8.14.1): 2010 (Method A) ISO 13934-Part-1 : 2013 ASTM D5035 – 2011	10 N to 5000 N 1 kgf to 510 kgf 2.2 lbf to 1124 lbf
		Tensile Strength (Grab Method)	JIS L1096 (8.14.1): 2010 (Method B) ISO 13934-Part-2 : 2014 ASTM D5034 – 2009	10 N to 5000 N 1 kgf to 510 kgf 2.2 lbf to 1124lbf
		Weight per unit area	JIS L1096 (Annexure-C) – 2010 (Method 5) ISO 3801 : 1977 (Method 5) ASTM D3776/3776 M-2009a (Method B,C and D)	10 GSM to 500 GSM
		Thread Density	JIS L1096 (Annexure-F) - 2010 ISO 7211-2 : 1984 ASTM D3775-2017	3 Thread / inch to 300 thread / inch 1 Threads / cm to 120 threads/cm 10 Threads/dm to 1200 threads/dm

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3.	Fabric (Woven) Fabric (Knitted)	Width	JIS L1096 (8.2.1): 2010 ISO 22198:2006 ASTM D3774-2018	0.05 m to 3 m 2 inch to 120 inch 5 cm to 300 cm

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