

Laboratory	Denim Laboratory, Arvind Limited, NLRC, Naroda Road, Ahmedabad, Gujarat		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	11.08.2016
Certificate Number	T-1177	Valid Until	10.08.2018
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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.	Yarn	Unevenness U% / CV% & Imperfections	ISO 16549: 2004 ASTM D 1425M: 2014	2 % to 50 % (0 to 9000) /km
		Hairiness Index	DBD/TST/TP/205, April 2014	1 to 15
		Breaking Force & Elongation at Break	ISO 2062: 2009 ASTM D 2256M: 2010	1 N to 500 N 2 % to 100 %
		Count	ASTM D 1907M: 2012	5 tex to 590 tex (1 NeC to 110 NeC)
		Strength	ASTM D 1578: 1993 (Reapproved 2011)	490 N to 2000 N (110 lbf to 450 lbf)
		Twist (Single)	ASTM D 1422M: 2013	3 tpcm to 24 tpcm (8 tpi to 60 tpi)
2.	Fabric	Count of yarn removed from fabrics	ASTM D 1059: 2001	4 tex to 120 tex (5 NeC to 147 NeC)
		Construction of fabric	ASTM D 3775: 2012	(100 to 800) / dm [(25 to 200) threads/ inch]
		Weight per unit area	ASTM D 3776M-09a (Reapproved 2013)	(10 to 600) gsm
		Width	ASTM D 3774: 1996 (Reapproved 2012)	(10 to 200) cm
		Stretch % & Growth %	ASTM D 3107: 2007 (Reapproved 2011)	0.5 % to 60 % 0.5 % to 20 %

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	Fabric	Skewness %	AATCC 179: 2012 LS & Co. Method 2: 2004	(0 to 10) %
		Stiffness	ASTM D 4032: 2008 (Reapproved 2012)	1 N to 200 N (0.1 kg to 20 kg)
		Tear Strength -Elmendorf Method	ASTM D 1424: 2009 (Reapproved 2013)	6.3 N to 98 N (630 g to 9800 g)
		-Single Rip Method	ISO 13937-1: 2000 ASTM D 2261: 2013	40 N to 2200 N (4 kg to 220 kg)
		Tensile Strength (Grab Method)	ASTM D 5034: 2009 (Reapproved 2013) ISO 13934-2: 2014	98 N to 4900 N (10 kgf to 500 kgf)
		Dimensional Change after Home Laundering	AATCC 135: 2012 ISO 5077: 2007 ISO 3759: 2011 ISO 6330: 2012	(-) 40 % to (+) 10 %

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