

Laboratory Aditya Birla Fashion & Retail Ltd., (Lakshya, Pantaloons Division),  
Ground Floor, Skyline Icon Business Park, 86-92, Off A.K. Road,  
Marol Village, Andheri East, Mumbai, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6321

Page 1 of 2

Validity 27.09.2017 to 26.09.2019

Last Amended on 11.09.2018

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

**CHEMICAL TESTING**

I.	TEXTILE (WOVEN & NON WOVEN)			
1.	Textile Products Yarns & Chords, Finished fabric Apparels/ Garments, Made-ups, Terry Fabrics & its Products	Dimensional Changes of Fabrics & Garments After Home Laundering	AATCC -135 : 2014 AATCC-150 : 2012 Lakshya/TM/Chemical 01: 2016	(-)20% to + 20%
		Dimensional Changes of Fabrics & Garments After Hand Washing	Lakshya/TM/Chemical 04: 2016	(-)20% to + 20%
		Appearance of Fabrics & Garments After Home Laundering	AATCC-124 :2014 AATCC-143 :2014 Lakshya/TM/Chemical 02: 2016	Qualitative
		Skewness in Fabric and Spirality in Garment After Home Laundering	AATCC-179:2012 ISO 16322-3:2005 Lakshya/TM/Chemical 03: 2016	0 to 25%
		Colorfastness to Rubbing	ISO 105X12: 2016	Qualitative (Grade 1 to 5)
		Colorfastness to Perspiration	AATCC 15: 2013	Qualitative (Grade 1 to 5)
		Colorfastness to Water	AATCC 107:2013	Qualitative (Grade 1 to 5)
		Fiber Composition	AATCC 20: 2013 AATCC 20A: 2017	0.5% to 100%
		pH Value	ISO 3071: 2005	1 to 14

Laboratory Aditya Birla Fashion & Retail Ltd., (Lakshya, Pantaloon Division),  
Ground Floor, Skyline Icon Business Park, 86-92, Off A.K. Road,  
Marol Village, Andheri East, Mumbai, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6321

Page 2 of 2

Validity 27.09.2017 to 26.09.2019

Last Amended on 11.09.2018

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
<b><u>MECHANICAL TESTING</u></b>				
<b>I.</b>	<b>TEXTILES MATERIALS</b>			
<b>1.</b>	<b>Textile Products Garments and Apparels, Fabrics (Woven &amp; on Woven), Handloom Textiles, Khadi Textiles, Packaging Textiles, Upholstery Fabrics (Other than automotive), Wool &amp; its products</b>	Tensile Strength	ASTM D5034:2013	10 N to 5000 N
		Tear Strength	ASTM D1424:2013	1.6 N to 51.2 N
		Seam Slippage & Seam Strength	ASTM D1683:2011	10 N to 5000 N
		Seam Stretchability	ASTM/AATCCTS-015 Lakshya/TM/Mechanical 03: 2016	10 N to 5000 N
		Pilling Resistance	ISO 12945-(Part 1): 2000	Qualitative (Grade 1 to 5)
		Pilling Resistance	ISO 12945-(Part 2): 2000	Qualitative (Grade 1 to 5)
		Bursting Strength	ASTM D3786: 2013	100 kPa to 1000 kPa (14 psi to 140 psi)
		Fabric Weight	ASTM D3776: 2013	25 GSM to 1000 GSM
		Yarn Count	Lakshya/TM/Mechanical 01: 2016	5 Ne to 100 Ne (6 Tex to 120 Tex)
		Fabric Count(Thread per Unit Length)	ASTM D3775: 2012	40 to 1200 per dm (10 to 300 per inch)
Stitch Density	ASTM D3887: 2008	40 to 600 per dm (10 to 150 per inch)		
<b>2.</b>	<b>Textile Products Garments and apparel, Textile Accessories- Buttons and other attachments</b>	Attachment Strength	16CFR1500 : 51-53 Lakshya/TM/Mechanical 02: 2016	5 N to 200 N (1.1 lbs to 45.0 lbs)