

Laboratory	TUV Rheinland Bangladesh Pvt. Ltd., Plot 17, Road 113/A, Alauddin Tower (6th to 8th Floor), Gulshan-2, Dhaka, Bangladesh		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	05.08.2014
Certificate Number	T-2299	Valid Until	04.08.2016
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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.	Textile Fabric & Garment	Breaking Strength & Elongation (Grab Method)	ASTM D 5034: 09 (Reapproved 2013)	20 N to 4500 N (5 lb to 900 lb) 5% to 30%
		Maximum Force (Grab Method)	ISO 13934- 2: 2014	20 N to 4500 N (5 lb to 900 lb)
		Maximum Breaking Force & Elongation (Strip Method)	ASTM D 5035: 11 ISO 13934-1: 2013	20 N to 4500 N (5 lb to 900 lb) 5 % to 30 %
		Tear Strength (Elmendorf type)	ASTM D 1424: 09 (Reapproved 2013)	2 N to 62 N (0.4 lb to 14 lb)
		Tear Force (Elmendorf type)	ISO 13937 – 1: 2004	
		Dimensional Change in washing and Drying	ISO 5077: 2007 (ISO 6330: 2012 ISO 3759: 2011)	- 30% to + 30%
		Dimensional Change after Home Laundering	AATCC 135: 2012 AATCC 150: 2012	- 30% to + 30%
		Skewness Change After Home Laundering	AATCC 179: 2012	- 30% to + 30%
		Spirality after Laundering:		- 30% to + 30%
		Knitted Garments	ISO 16322 – 1: 2005	
		Woven and Knitted Fabrics	ISO 16322 – 2: 2007	
		Woven and Knitted Garments	ISO 16322 – 3: 2005	

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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
	Textile Fabric & Garment	Appearance after Repeated Home Laundering	AATCC 143: 2011	Qualitative Grade 1 to Grade 5
		Appearance after Domestic Washing & Drying	ISO 15487: 2009	Qualitative Grade 1 to Grade 5
		Mass per unit Area	ISO 3801: 1977(Method-5) BS EN 12127: 1997 ASTM D 3776M: 09a (Reapproved 2013)-Option C	20 GSM to 1000 GSM
		Maximum Force to Seam Rupture (Grab Method)	ISO 13935-2: 2014	20 N to 4500 N (5 lb to 900 lb)
		Seam Strength of Woven Apparel Fabric	ASTM D 1683M: 11a	20 N to 4500 N (5 lb to 900 lb)
		Slippage Resistance of Yarns at a Seam in Woven Fabrics: Fixed Seam Opening Method	ISO 13936-1: 2004	0 N to 4500 N
		Fixed Load method	ISO 13936-2: 2004	20 N to 4500 N
		Seam Method	BS 3320: 1988	(5 lb to 900 lb)
	Seam Slippage in Woven Apparel Fabrics	ASTM D 1683M: 11a		
	Slippage Resistance of Yarns in Woven Fabrics using a Standard Seam	ASTM D 434 : 1995		

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	Textile Fabric & Garment	Bursting Strength (Diaphragm/ Hydraulic Method)	ISO 13938-1: 1999 ASTM D 3786M : 13	100 kPa to 5800 kPa (15 psi to 840 psi)
		Fabric Propensity to Surface fuzzing and to Pilling: Pilling Box Method	BS EN ISO 12945-1: 2001 ISO 12945-1: 2000	Qualitative Grade 1 to Grade 5
		Modified Martindale Method	BS EN ISO 12945-2: 2000 ISO 12945-2: 2000	Qualitative Grade 1 to Grade 5
		Flammability of Clothing Textiles	16 CFR Part 1610: 2014	Class 1 to Class 3
		Flammability of Children's Sleepwear: Sizes 0 Through 6X (FF 3-71)	16 CFR Part 1615: 2014	Char Length: 0 cm to 25 cm (0 inch to 10 inch)
		Flammability of Children's Sleepwear: Sizes 7 Through 14 (FF 5-74)	16 CFR Part 1616: 2014	Char Length: 0 cm to 25 cm (0 inch to 10 inch)
2.	Textile & Textile Accessories	Tension Test	16 CFR 1500.51-53: 2011 ASTM F 963 (Cl.8.9): 2011	Qualitative
		Torque Test	16 CFR 1500.51-53: 2011 ASTM F 963 (Cl. 8.8): 2011	Qualitative
		Sharp Point Test Accessible Points	16 CFR 1500.48: 2011 ASTM F 963 (Cl. 4.9): 2011	Qualitative

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	Textile & Textile Accessories	Sharp Edge Test Accessible Edges	16 CFR 1500.49: 2011 ASTM F 963 (Cl. 4.7): 2011	Qualitative
		Small Parts Test (Chocking Hazard) Small Objects (Chocking Hazard)	16 CFR Part 1501: 2011 ASTM F 963 (Cl. 4.6): 2011	Qualitative
		Cords and Drawstrings on Children's Clothing	ASTM F 1816: 97 (Reapproved 2009) BS EN 14682: 2007	Qualitative

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