

Laboratory	Bureau Veritas Consumer Products Services (India) Pvt. Ltd., C-19, Sector 7, Distt Gautambudh Nagar, Noida, Uttar Pradesh		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	25.07.2014
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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 & Accessories Fabric Woven / Industrial Textiles / Zippers and Fasteners.	'Mass per unit area' (weight) of fabric.	ASTM D3776/ D3776M -09a, (Option C) BS EN 12127 : 1998 ISO 3801:1983 method 5 IS 1964:2001 method A	10 to1000 GSM
		'Fabric count of woven fabric'	ASTM D3775-2008 DIN EN 1049-2 ISO 7211-2 IS 1963	10 to 800 threads/Inches
		Dimensional Changes to Washing	AATCC 135 : 2012 AATCC 150 : 2003 BS EN ISO 6330 :2012 IS 15370:2005	All Garments (natural & man-made fibres) (-30% to +30%)
2.	Textiles & Accessories Fibres / Yarns / Fabric Woven / Fabric Non Woven / Industrial Textiles / Tyre Cord Fabric Test / Zippers and Fasteners.	Breaking strength Textile Fabric (Grab Method)	ASTM D5034: 2009 BS EN ISO 13934-2:1999 IS 1969:2010 (Part 2)	0.0453kgf to 453 kgf (0.1 lbf. to 1000 lbf.)
		Breaking Strength Textile Fabrics (Strip Method)	ASTM D5035: 2006(Reap : 2008) BS EN ISO 13934-1 IS 1969(Part 1)	0.0453kgf to 453 kgf (0.1 lbf. to 1000 lbf.)
		Water Repellency: Spray Tes	AATCC 22 : 2010	Rating 0 to 100 (Qualitative)

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	Textiles & Accessories Fibres / Yarns / Fabric Woven / Fabric Non Woven / Industrial Textiles / Tyre Cord Fabric Test / Zippers and Fasteners.	Resistance to slippage of yarn in woven fabric using a standard seam	ASTM D434: 1995 BS EN ISO 13936-1 :2004	0.0453kgf to 453 kgf (0.1 lbf. to 1000 lbf.)
		Determination of the Slippage Resistance of Yarns at a Seam in Woven Fabrics -- Part 2: Fixed Load Method	BS EN ISO 13936-2	0.0453kgf to 453 kgf (0.1 lbf. to 1000 lbf.)
		Determination of Maximum Force to Seam Rupture Using the Grab Method	ASTM D1683 : 2007 BS EN ISO 13935-2	0.0453kgf to 453 kgf (0.1 lbf. to 1000 lbf.)
		Tearing Strength of fabrics (Elmendorf apparatus)	ASTM D1424: 2009 ISO 13937-1: 2000 IS 6489 :1993 ISO 9290:1990	1kgf to 20kgf
		Tearing Strength of fabrics by the tongue (Single Rip) procedure	ASTM D2261: 2007 (Constant-Rate-Extension Tensile Testing Machine)	0.0453kgf to 453 kgf (0.1 lbf. to 1000 lbf.)
		Bursting Strength (Hydraulic diaphragm bursting strength test method)	ASTM D3786-D3786M: 2013 BS EN ISO 13938-1:1999 IS1966-1: 1999	40kPa To 1240 kPa
		Flammability of Clothing Textiles	(As Per 16 CFR 1610) (Reap 2001)	Class 1 to class 3

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	Textiles & Accessories Fibres / Yarns / Fabric Woven / Fabric Non Woven / Industrial Textiles / Tyre Cord Fabric Test / Zippers and Fasteners.	Pilling Resistance and other related surface changes of textile fabrics (Random tumble pilling tester)	ASTM D3512 M : 2010	Grade : 1to 5 on Photographic std.
		Pilling Resistance; Elastomeric Pad Pilling	ASTM D3514 :2009	Grade : 1to 5 on Photographic std.
		Fabric propensity to surface fuzzing & to pilling (By modified Martindale method)	BS EN ISO 12945-2:2000	Class 1 to 5
		Abrasion Resistance of Textile Fabrics Inflated Diaphragm	ASTM D3886 :1999 (Reap 2007)	Grade 1-5
		Abrasion Resistance of Textiles Fabrics	BS EN ISO 12947-2 / IS 12673 (Method 1) (No of cycle at thread break)	Upto 50,000 Cycles
		Skewness changes in fabric & automatic garment twist resulting from home laundering	AATCC 179 : 2012 / ISO 16322-3:2005 Procedure-B	0-50%
		Resistance to Unsnapping of Snap Fastener	ASTM D4846 : 1996 (Reap 2004)	0.0453Kgf to 453 Kgf (0.1 lbf. to 1000 lbf.)
		Zipper Strength Test Operability of zipper	ASTM D2061: 2007 / ASTM D2062: 2003 (RA 2009) BS 3084: 2006	0.0453 Kgf to 453 Kgf (0.1 lbf. to 1000 lbf.)

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	Textiles & Accessories Fibres / Yarns / Fabric Woven / Fabric Non Woven / Industrial Textiles / Tyre Cord Fabric Test / Zippers and Fasteners.	Residual Elongation & Extension	BS EN 14704-1 BS 4952	10 To 90%
		Stitch Density for knitted fabric	ASTM D3887 / NF EN 14971	20 to 50 per cm
		Stretch Properties of Knitted Fabrics having Low Power	ASTM D2594: 2004 (Reap 2008)	0 to 100 %
		Stretch Properties of Fabrics woven from Stretch Yarns	ASTM D3107: 2007	0 to 100 %
		Impact Resistance of Plastic Sew	ASTM D5171: 09a	Qualitative
		Absorbency of Textiles	AATCC 79: 2010	0 to 60 sec
		Appearance of Fabrics after Repeated Home Launderings	AATCC 124: 2009	Subjective Assessment Grade 1 to 5
		Bow & Skew in Woven & Knitted Fabrics	ASTM D 3882: 1999 (Reap 2008)	0 -50%

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3.	Textiles & Accessories Woven Industrial Textiles / Tyre Cord Fabric Test / Zippers and Fasteners.	Flammability of Carpets & Rugs Test for Simulating use and abuse of toys and other articles intended for use by children (Torque & Tension Test) a) Childrens of 18 Months of age or less b) Childrens over 18 Months but not over 36 Months age c) Childrens over 36 Months but not over 96 Months age	16 CFR 1631 (FF2-70) & 1630 (FF1-70) 16 CFR 1500.51-53 (ASTM F963-2007: Section 8.8 & 8.9)	Class 1 to class 3 Qualitative
4.	Textiles & Accessories Fibres / Yarns / Fabric Woven / Fabric Non Woven / Industrial Textiles / Tyre Cord Fabric Test / Zippers and Fasteners.	Standard For The Flammability Of Children's Sleepwear	16 CFR 1615 {Sizes 0 through 6X (FF 3-71)} 16 CFR 1616 {Sizes 7 through 14 (FF 5-74)}	Class 1 to class 3

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II. TOYS

1. Toys & parts of toys	On Confined Spaces (4.16) & Holes , Clearance And Accessibility Of Mechanism (4.18)	1. Impact test	ASTM F 963-11 (8.7)	Qualitative
		2. Drop test	ASTM F 963-11 (8.7.1)	
		3. Tip over test	ASTM F 963-11 (8.7.2)	
		4. Tumble test for wheeled Toys	ASTM F 963-11 (8.7.3)	
		5. Impact test for toys that cover the face	ASTM F 963-11 (8.7.4)	
		6. Torque tests for removal of component	ASTM F 963-11 (8.8)	
		7. Tension test for removal component	ASTM F 963-11 (8.9)	
		8. Tension test for seams in stuffed toys and bean bag type toys	ASTM F 963-11 (8.9.1)	
		9. Compression test	ASTM F 963-11 (8.10)	
			On Nails and Fasteners (4.11)	
		2. Sharp Edges	ASTM F 963-11(16 CFR 1500.49)	
		3. Small Objects	ASTM F 963-11(16 CFR 1501)	
	On wheels , Tires & Axles			

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	Toys & parts of toys	(4.17) 1. Small objects 2. Impact test 3. Drop test 4. Tip over test 5. Tumble test for wheeled Toys 6. Impact test for toys that cover the face 7. Torque tests for removal of component 8. Tension test for removal component 9. Tension test for seams in stuffed toys and bean bag type toys 10. Compression test 11. Test for tire removal and snap in wheel and axle assembly	16 CFR 1501 ASTM F 963-11 (8.7) ASTM F 963-11 (8.7.1) ASTM F 963-11 (8.7.2) ASTM F 963-11 (8.7.3) ASTM F 963-11 (8.7.4) ASTM F 963-11 (8.8) ASTM F 963-11 (8.9) ASTM F 963-11 (8.9.1) ASTM F 963-11 (8.10) ASTM F 963-11 (8.11)	Qualitative

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	Toys & parts of toys	On Wire or Rods – ASTM (4.10), on Metal wires and rods - IS & ISO (4.9)		Qualitative
		1. Sharp Point	ASTM F 963-11 (16 CFR 1500.48) / IS 9873 Part 1:2012(5.9)/ ISO 8124-1: 2009+Amd 1-2011 (5.9)	
		2. Sharp Edges	ASTM F 963-11 (16 CFR 1500.48) / IS 9873 Part 1:2012(5.8)/ ISO 8124-1: 2009+Amd 1-2011 (5.8)	
		3. Tension test for protecting component	ASTM F 963-11 (8.9) / IS 9873 Part 1:2012(5.24.6.4)/ ISO 8124-1: 2009+Amd 1-2011 (5.24.6.4)	
		4. Flexure test	ASTM F 963-11(8.12) / IS 9873 Part 1:2012(5.24.8)/ ISO 8124-1: 2009+Amd 1-2011 (5.24.8)	
		1. Thickness of Plastic Film (4.12)	ASTM F963-2011(8.21) IS 9873 Part 1 :2012 (5.10) /	0.1-50 Micro 3.93 x 10 ⁻⁶ inches
		2. Thickness of Plastic film or plastic bags in packaging and in toys (4.10)	ISO 8124-1: 2009+Amd 1-2011 5.10 EN 71-1: 2011 (E) (8.25.1/ 8.25.2 /8.4.2.1)	- 1.96 x 10 ⁻³ inches Adhesion : Qualitative
		3. Thickness of Flexible Plastic Sheeting (4.3)		

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	Toys & parts of toys	On Cords, Straps And Elastics –ASTM (4.14)/ – IS &ISO (4.11) / Cord , chain and electrical cables – EN (5.4)	ASTM F 963-11 (8.7) ASTM F 963-11 (8.7.1) ASTM F 963-11 (8.7.2) ASTM F 963-11 (8.7.3) ASTM F 963-11 (8.7.4) ASTM F 963-11 (8.8) ASTM F 963-11 (8.9) ASTM F 963-11 (8.9.1)	Qualitative
		1. Impact test	ASTM F 963-11 (8.7)	
		2. Drop test	ASTM F 963-11 (8.7.1)	
		3. Tip over test	ASTM F 963-11 (8.7.2)	
		4. Tumble test for wheeled Toys	ASTM F 963-11 (8.7.3)	
		5. Impact test for toys that cover the face	ASTM F 963-11 (8.7.4)	
		6. Torque tests for removal of component	ASTM F 963-11 (8.8)	
		7. Tension test for removal component	ASTM F 963-11 (8.9)	
		8. Tension test for seams in stuffed toys and bean bag type toys	ASTM F 963-11 (8.10) & IS 9873 Part 1 :2012(5.24.7) ASTM F 963-11 (8.22)	
		9. Compression test	IS 9873 Part 1 :2012 & ISO 8124-1: 2009+Amd 1-2011 (5.11.1)	
		10. Tests for loops and cords	IS 9873 Part 1 :2012 & ISO 8124-1: 2009+Amd 1-2011 (5.11.2) &	
		11. Determination of cord thickness	EN 71-1: 2011 (E)(8.40) EN 71-1: 2011 (E)(8.38)	
		12. Self-retracting pull cords	EN 71-1: 2011 (E)(8.39)	

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	Toys & parts of toys	13. Determination of length of cords , chains and electrical cables 14. Breakaway feature separation test 15. Self-retracting cords Shape and Size of Certain Toys – EN (5.8)& On Shape Size & Strength of Certain Toys – IS & ISO (4.5)	EN 71-1: 2011 (E)(8.16) & IS 9873 Part 1:2012 & ISO 8124-1: 2009+Amd 1-2011 (5.3) IS 9873 Part 1:2012& ISO 8124-1: 2009+Amd 1-2011 (5.4) IS 9873 Part 1:2012 & ISO 8124-1: 2009+Amd 1-2011 (5.5) IS 9873 Part 1:2012 & ISO 8124-1: 2009+Amd 1-2011 (5.6) IS 9873 Part 1:2012 & ISO 8124-1: 2009+Amd 1-2011 (5.24.2) IS 9873 Part 1:2012 & ISO 8124-1: 2009+Amd 1-2011 (5.24.3) IS 9873 Part 1:2012 & ISO 8124-1: 2009+Amd 1-2011 (5.24.4) IS 9873 Part 1:2012 & ISO 8124-1: 2009+Amd 1-2011 (5.24.5) IS 9873 Part 1:2012 & ISO 8124-1: 2009+Amd 1-2011 (5.24.6) IS 9873 Part 1:2012 & ISO 8124-1: 2009+Amd 1-2011 (5.24.7) IS 9873 Part 1:2012 & ISO 8124-1: 2009+Amd 1-2011 (5.24.8)	Qualitative
		1. Test for shape and size of certain toys 2. Small ball test 3. Test for pompons 4. Test for play figures 5. Drop test 6. Tip over test 7. Dynamic strength test for wheeled ride on toys other than toy scooters 8. Torque test 9. Tension test 10. Compression test 11. Flexure test		

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	Toys & parts of toys	On Small balls –		Qualitative	
		1. Presence of small ball	ASTM (4.34) / –EN (4.22) ASTM F 963-2011		
		2. Torque test	(16 CFR 1500.18 (a) (17) /		
		3. Tension test	16 CFR 1500.19) / EN 71-1: 2011		
		4. Drop test	(E)(8.32.2)		
		5. Tip over test	EN 71-1: 2011 (E) (8.3)		
		6. Impact test	EN 71-1: 2011 (E) (8.4)		
		7. Compression test	EN 71-1: 2011 (E) (8.5)		
			EN 71-1: 2011 (E) (8.6)		
			EN 71-1: 2011 (E) (8.7)		
			EN 71-1: 2011 (E) (8.8)		
		On Hemispheric-Shaped Objects (4.36)	ASTM F 963-11 (8.7)		Qualitative
		1. Impact test	ASTM F 963-11 (8.7.1)		
		2. Drop test	ASTM F 963-11 (8.7.2)		
		3. Tip over test	ASTM F 963-11 (8.7.2.1)		
	4. Tip over test for large , Bulky test	ASTM F 963-11 (8.7.3) ASTM F 963-11 (8.7.4)			
	5. Tumble test for wheeled Toys	ASTM F 963-11 (8.8) ASTM F 963-11 (8.9)			
	6. Impact test for toys that cover the face	ASTM F 963-11 (8.10)			
	7. Torque tests for removal of component				
	8. Tension test for removal component				
	9. Compression test				

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	Toys & parts of toys	On Toy bags (4.4)		Qualitative
		1. Sharpness of point	EN 71-1: 2011 (E) (8.12)	
		2. Sharpness of Edges	EN 71-1: 2011 (E) (8.11)	
		3. Torque test	EN 71-1: 2011 (E) (8.3)	
		4. Tension test	EN 71-1: 2011 (E) (8.4)	
		5. Compression test	EN 71-1: 2011 (E) (8.8)	
		On Protruding part (4.9)		Qualitative
		1. Sharpness of point	EN 71-1: 2011 (E) (8.12)	
		2. Sharpness of Edges	EN 71-1: 2011 (E) (8.11)	
		3. Tension test	EN 71-1: 2011 (E) (8.4)	
		On Simulated Protective Equipment (4.17)		Qualitative
		1. Impact test for toys that cover face	IS 9873 Part 1:2012 & ISO 8124-1: 2009+Amdt 1-2011 (5.14)	
		2. Sharpness of Edges	IS 9873 Part 1:2012 & ISO 8124-1: 2009+Amdt 1-2011 (5.8)	
		3. Sharpness of points	IS 9873 Part 1:2012 & ISO 8124-1: 2009+Amdt 1-2011 (5.9)	
		On Toys Intended For Children Under 36 Months(5)		Qualitative
	1. Torque test	EN 71-1: 2011 (E) (8.3)		
	2. Tension test	EN 71-1: 2011 (E) (8.4)		
	3. Drop test	EN 71-1: 2011 (E) (8.5)		
	4. Tip over test	EN 71-1: 2011 (E) (8.6)		
	5. Impact test	EN 71-1: 2011 (E) (8.7)		
	6. Compression test	EN 71-1: 2011 (E) (8.8)		
	7. Soaking test	EN 71-1: 2011 (E) (8.9)		
	8. Sharpness of points	EN 71-1: 2011 (E) (8.12)		
	9. Sharpness of Edges	EN 71-1: 2011 (E) (8.11)		

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	Toys & parts of toys	Test for Play Figures in Toys (5.11)	EN 71-1: 2011 (E) (8.33)	Qualitative
		On Hemispheric-Shaped Toys (5.12)	EN 71-1: 2011 (E) (8.3)	
		1. Torque test	EN 71-1: 2011 (E) (8.4)	
		2. Tension test	EN 71-1: 2011 (E) (8.5)	
		3. Drop test	EN 71-1: 2011 (E) (8.6)	
		4. Tip over test	EN 71-1: 2011 (E) (8.7)	
		5. Impact test	EN 71-1: 2011 (E) (8.8)	
		6. Compression test	EN 71-1: 2011 (E) (8.9)	
		7. Soaking test		
		1. Flammability test covering general requirement on all toys (4.1),	EN 71-2: 2011 (E) (5.5.1 / 5.5.2) EN 71-2: 2011 (E) (5.2 / 5.3/5.4) / IS 9873 Part 2:2012 & ISO 8124 Part- 2:2007 (5.2/5.3/5.4)	Qualitative
	2. Flammability of toys to be worn on head (4.2)	EN 71-2: 2011 (E) (5.5.3 / 5.5/5.1.1) / IS 9873 Part 2:2012 & ISO 8124 Part- 2:2007		
	3. Flammability of soft filled toys (4.5)	(5.5/5.6/5.1.2) /		
	On Small parts – IS & ISO (4.4)/ Small Objects – ASTM (4.6)		Qualitative	
	1. Drop test	ASTM F 963-11 (8.7.1) / IS 9873 Part 1:2012(5.24.2)/ ISO 8124-1:2009(E) (5.24.2)		
	2. Tip over test	ASTM F 963-11 (8.7.2) / IS 9873 Part 1:2012(5.24.3)/ ISO 8124-1:2009(E) (5.24.3)		

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	Toys & parts of toys	3. Dynamic strength test for wheeled ride on toys other than toys scooters	IS 9873 Part 1:2012(5.24.4)/ ISO 8124-1:2009(E) (5.24.4)	Qualitative	
		4. Torque test	ASTM F 963-11 (8.8) / IS 9873 Part 1:2012(5.24.5)/ ISO 8124-1:2009(E) (5.24.5)		
		5. Tension test	ASTM F 963-11 (8.9) / IS 9873 Part 1:2012(5.24.6)/ ISO 8124-1:2009(E) (5.24.6)		
		6. Flexure test	ASTM F 963-11 (8.12) / IS 9873 Part 1:2012(5.24.8)/ ISO 8124-1:2009(E) (5.24.8)		
		7. Small part test	ASTM F 963-11 (16 CFR 1501) / IS 9873 Part 1:2012(5.2)/ ISO 8124-1:2009(E) (5.2)		
		On Small parts – IS & ISO (4.4)/ Small Objects – ASTM (4.6)	ASTM F 963-11 (8.10)		Qualitative
		8. Compression test	ASTM F 963-11 (8.7.3)		
		9. Tumble test for wheeled toys	ASTM F 963-11 (8.7.4)		
		10. Impact test for toys that cover the face			

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	Toys & parts of toys	On Edges (4.6) 1. Accessible sharp edges of glass metal (4.6.1) / 5.8 2. Torque test 3. Tension test Sharp point (4.7)	IS 9873 Part 1:2012 & ISO 8124-1:2009(E) (5.8) IS 9873 Part 1:2012 & ISO 8124-1:2009(E) (5.24.5) IS 9873 Part 1:2012 & ISO 8124-1:2009(E) (5.24.6.1) IS 9873 Part 1:2012 & ISO 8124-1:2009(E) (5.9)	Qualitative
	Toys & parts of toys Made Up of Iron Steel and ferro-alloys / special steel / Copper & its alloys / Aluminium & its alloys / tin & tin Alloys / zinc & zinc alloys / Lead & lead alloys / Magnesium & magnesium alloys / nickel chromium cobalt & their alloys / Titanium & its alloys / Tungsten & its alloys / Other metal alloys / Precious metals)	Flammability of Solids Sharp point & Sharp Edges / (4.6) / (4.7) Drop Test for Loaded Container Free Fall	ASTM F 963 – 2011 (As Per 16 CFR 1500.44) ASTM F 963 – 2011 (As Per 16 CFR 1500.48/49) / ASTM D 5276: 1998 (Reap 2009)	0- 127 mm / 60 sec. Burn Qualitative Qualitative

Laboratory	Bureau Veritas Consumer Products Services (India) Pvt. Ltd., C-19, Sector 7, Distt Gautambudh Nagar, Noida, Uttar Pradesh		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	25.07.2014
Certificate Number	T-0488	Valid Until	24.07.2016
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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
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II. PACKAGING MATERIAL

1. Packaging Material	Edgewise compressive strength of corrugated fibre board using the clamp method (Short column test)	ECT TAPPI T839 om-08	180 kg or 397 lbf
	Bursting Strength of Corrugated & Solid Fibreboard	TAPPI T810 om-11	30 kg/cm ²

III. LEATHER & LEATHER PRODUCTS

1. Leather	Glove Design & Construction	EN 420:2003 +A1:2009	N/A
	Water Penetration	EN 20344 / EN 420:2003+A1:2009	Level 1 to 4
	Sizing	EN 420:2003 +A1:2009	Upto 500 mm
	Dexterity	EN 420:2003 +A1:2009	Level 1 to 5
	Water Vapour Transmission	EN 420:2003 +A1:2009	Upto 20 mg/(cm ² *h)
	Water Vapour Absorption	EN 420:2003 +A1:2009	Upto 20 mg/cm ²
	Marking	EN 420:2003 +A1:2009	Level 1 to 5

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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
	Leather	Abrasion Resistance	EN 388:2003	Level 1 to 5
		Blade Cut Resistance	EN 388:2003	Level 1 to 5
		Tear Strength	EN 388:2003	Level 1 to 5
		Puncture Resistance	EN 388:2003	Level 1 to 5
2.	Leather/Footwear	Sole Bond Peel Strength	ISO 17708:2003 + SATRA TM 411:1992 + ISO 20345:2011	0.2 N/mm to 20 N/mm
		Strap to Sole	SATRA TM 120:1993	5 N to 1000 N

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