

Laboratory **SGS Lanka Private Limited, 141/7, 141/6, Vauxhall Street Colombo 2, Sri Lanka**
 Location 1: 141/7, Vauxhall Street, Colombo-2, Sri Lanka
 Location 2: 141/6, Vauxhall Street, Colombo-2, Sri Lanka

Accreditation Standard **ISO/IEC 17025: 2005**

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I. TEXTILES & RELATED PRODUCTS

1.	Fabric	Yarn Count	ASTMD 1059 :2001/ ASTMD 1244:2005/98(2011) ISO 1139:1973/ ISO 3711-5:1984/ ISO 7211-3:1984	5-590 tex
		Width of Textile Fabric	ASTM D 3774 – 2012 ISO 3932:1976 ISO 22198 : 2006	1 cm - 200 cm
		Tear properties of fabrics Part 1: Determination of tear force using ballistic pendulum method (Elmendorf)	ISO 13937-1:2000/ BS EN ISO 13937-1:2000 DIN EN ISO 13937-1:2000-06	163g-5120g
		Tearing strength of fabrics by falling - pendulum (Elmendorf - type) Apparatus	ASTM D 1424 -2013	163g-5120g
		Method 2.8: Determination of tear force of fabrics using the ballistic pendulum method (Elmendorf)	AS 2001.2.8 - 2001	163g-5120g

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Tearing strength of fabrics by the tongue (single rip) procedure (CRE Tensile Testing Machine)	ASTM D2261:2011/ ISO 13937-2:2007/ BS EN ISO 13937-2:2000 DIN EN ISO 13937-2(2000-06)	2.04 kg - 407.7 kg
Abrasion resistance of fabrics by the Martindale method	BS EN ISO 12947-1 to 4:1999/ ISO 12947-1 to 4:1998	a)Upto 99999 Cycles b) Colour Change: Grade 1 - 5
Abrasion resistance of textile materials	ASTM D 4966:2012	a)Upto 99999 Cycles b) Colour Change: Grade 1- 5
Fabric propensity to surface fuzzing and to pilling - Part 1: Pilling box method	ISO 12945-1 :2000/ BS EN ISO 12945-1:2001/	Grade 1-5
Fabric propensity to surface fuzzing and to pilling - Part 2: Modified Martindale method	ISO 12945-2:2000/ BS EN ISO 12945-2:2000	Grade 1-5
Pilling Resistance and Other Related Surface Changes of Textile Fabrics: Martindale Tester	ASTM D 4970 – 2010	Grade 1-5

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Pilling Resistance and Other Related Surface Changes of Textile Fabrics: Random Tumble Pilling Tester	ASTM D 3512 – 2010	Grade 1-5
Standard for the Flammability of Clothing Textiles-Apparel (45°AFC)	16 CFR 1610 :2008 ASTM D 1230:2010 CAN/CGSB-4.2 No27.5:2008 CAN/CGSB4.2 No.27.6:2004	1-25 sec. 1.0 t- 2 min.
Standard for the Flammability of Clothing Textiles (Vertical)	ISO 6941:2003 BS EN ISO 6941:2003 DIN EN ISO 6941:2003 ISO 6940:2004 BS EN ISO 6940:2004 DIN EN ISO 6940:2004 BS EN ISO 1103:2005 BS 5722:1991 BS 5438:1989 BS 5651:1978 CAN/CGSB-4.2 No27.3:1994 CAN/CGSB-4.2 No27.4:2008 CAN/CGSB-4.2 No. 27.5-2008 EN 1103:2005 BS EN 1101:2005 BS EN 1102:1996 BS EN 1103:2005 ISO 15025:2000	Upto 120 s 1 - 25 cm

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		Burning behavior of children night wear	BS EN 14878:2007 EN 14878 : 2007	Upt- 120 s 1 - 25 cm
		Children Sleep wear	16 CFR 1615/1616:2004	Upto 120 s 1 - 25 cm
2.	Fabrics / Garment / Films & Sheeting	Thickness by mechanical screening	ISO 5084 : 1996	0.01 - 10.0 mm
		(Non wovens)- thickness	ISO 9073-2:1995	0.01 - 10.0 mm
		Nominal thickness of geosynthetics	ASTM D 5199:2011 ASTM D 1777:2011	0.01 - 10.0 mm
		Thickness by mechanical screening	ISO 4593:1993	0.01 - 10.0 mm
3.	Fabrics/Garments	Mass per unit length and mass per unit area	ISO 3801:2005 (Method 3)/ BS 2471:2005 Amended 1 (Method 3)	5-1000g/sq.m
		Mass per unit area using small samples	BS EN 12127 : 1998 DIN EN 1049-2:1994	5-1000g/sq.m
		Mass Per Unit Area (Weight) of Fabric	ASTM D 3776 : 2013	5-1000g/sq.m

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Construction Methods of analysis Part 2: Determination of number of threads per unit length	ISO 7211-2-1984 (E)/ BS EN 1049-2:1994	Upto 100 ends & picks/cm Upto 100 wales & courses per cm
Warp (End) and Filling (Pick) Count of Woven Fabrics	ASTM D 3775 – 2013	
Knitted fabrics - Wales and Courses	BS 5441:1988 DIN EN 53883:1983	
Tolerances for Knitted Fabrics - Wales and Courses	ASTM D 3887 – 2013	
Tensile properties of fabrics - Part 2: Determination of maximum force using the grab method	ISO 13934-2:2013 BS EN ISO 13934-2:2013 DIN EN ISO 13934-2:1999-04	2.04 kg - 407.7 kg
Breaking Strength and Elongation of Textile Fabrics (Grab Test)	ASTM D 5034 – 2013	2.04 kg - 407.7 kg
Tensile properties of fabrics -Part 1: Determination of maximum force and elongation at maximum force using the strip method	ISO 13934-1: 2013 BS EN ISO 13934-1:2013 DIN N ISO 13934-1:1999-04	2.04 kg - 407.7 kg
Breaking Force and Elongation of Textile Fabrics (Strip Method)	ASTM D 5035 – 2011	2.04 kg - 407.7 kg

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	Methods of test for Elastic fabrics	BS 4952:1992	2.04 kg - 407.7 kg
	Elasticity of fabrics Part 1: Strip tests	BS EN 14704-1:2005	2.04 kg - 407.7 kg
	Elasticity of fabrics Part 1: Strip tests	EN 14704-1:2005	2.04 kg - 407.7 kg
	Elasticity of fabrics Part 1: Strip tests	DIN EN 14704-1:2005	2.04 kg - 407.7 kg
	Elasticity of fabrics Strip tests	ASTM D 3107:2011	2.04 kg - 407.7 kg
	Elasticity of fabrics Strip tests	ASTM D2594(2004) 2012	2.04 kg - 407.7 kg
	Slippage resistance of yarns at a seam in woven fabrics Part 1: Fixed seam opening method	ISO 13936-1:2004 BS EN ISO 13936-1:2004 DIN EN ISO 13936-1:2004	2.04 kg - 407.7 kg
	Slippage resistance of yarns at a seam in woven fabrics Part 2: Fixed load method	ISO 13936-2:2004/ BS EN ISO 13936-2:2004 DIN EN ISO 13936-2(2004-07) EN ISO 13936-2:2004	2.04 kg - 407.7 kg
	Slippage resistance of yarns in woven fabrics: seam method	BS 3320:1988	2.04 kg - 407.7 kg
	Slippage of Yarns in Woven Fabrics Using a Standard Seam	ASTM D 434 – 2004	2.04 kg - 407.7 kg

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Seam tensile properties of fabrics and made-up textile articles Part 1: Determination of maximum force to seam rupture using the strip method	ISO 13935-1:2014 BS EN ISO 13935-1:1999 EN ISO 13935-1:1999 DIN EN ISO 13935-1:2013	2.04 kg - 407.7 kg
Seam tensile properties of fabrics and made up textile articles - Determination of maximum force to seam rupture using the grab method	ISO 13935-2:2014 BS EN ISO 13935-2:1999	2.04 kg - 407.7 kg
Standard Test Method for Failure in Sewn Seams of Woven Apparel Fabrics	ASTM D 1683 - 2011	2.04 kg - 407.7 kg
Bursting properties of fabrics Part 1:Hydraulic method for determination of bursting strength & bursting distension	ISO 13938-1:1999/ BS EN ISO 13938-1:1999 DIN EN ISO 13938-1:1999	0.5 kPa - 6000 kPa
Bursting Strength of Textile Fabrics Diaphragm Bursting Strength Tester Method	ASTM D 3786/D3786M – 2013	0.5 kPa - 6000 kPa
Bursting Strength of Textile Fabrics Diaphragm Bursting Strength Tester Method	ISO 13938-2:1999/ BS EN ISO 13938-2:1999 DIN EN ISO 13938-2:1999	0.5 kPa - 6000 kPa

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	Domestic washing and drying procedures for textile testing - Dimensional Change	BS EN ISO 6330:2012 ISO 6330:2012 DIN EN ISO 6330:2013	-50 % to 50 %
	Dimensional Changes of Fabrics after Home Laundering	AATCC 135/150-2004/2012	-50 % to 50 %
	Dimensional change -Domestic washing and drying procedures for textile testing	AS 2001.5.4.2005	-50 % to 50 %
	Dimensional stability to steaming	ASTM D3780:2014	-50 % to 50 %
	Dimensional stability to steaming	BS 4323:1979	
	Dimensional stability to steaming	ISO 3005:1978	
	Skewness Change in Fabric and Garment Twist Resulting from Automatic Home Laundering	AATCC 179-2012	0-30%
	Measuring Bow & Skew	ASTM D3882:2008(2012)	0-30%
	Determination of spirality after laundering - Percentage of wale spirality change in knitted garments	ISO 16322-1:2005	0-30%

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	Determination of spirality after laundering - Woven & knitted fabrics	ISO 16322-2:2005	0-30%
	Determination of spirality after laundering - Woven & Knitted Garments	ISO 16322-3:2005	0-30%
	Bow & Skewness Bow & Skewness	BS 2819:1990 ISO 13015:2013	0-30%
	Appearance of apparel and other textile end products after repeated home laundering	AATCC 143:2011	Qualitative
	Smoothness appearance of fabrics after repeated home laundering	AATCC 124:2013	Qualitative
	Appearance retention of garment / fabric	LTEX/TM/SOP/026(revised 10.05.2014)	Qualitative
	Smoothness of Seams in Fabrics after Repeated Home Laundering	AATCC 88B/88C-2011	Qualitative
	Durability after washing	LTEX/TM/SOP/27(revised 10.05.2014)	

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		Mace snagging Water repellency: Spray rating	ASTM D3939:2013 AATCC 22:2010 ISO 4920:1981 BS EN 24920:1992	1-5 grade 0-100 1-5 Grade
4.	Toys	Safety of toys Part 2: Flammability	EN 71-2:2011 + A 2007	Upto 120 s 1 - 25 cm
5.	Accessories/ Toys	Attachment strength	BS 7907:2007	2.04 kg - 407.7 kg
		Tension Test	EN 71-1:2011/ BS EN 71-1:2011	2.04 kg - 407.7 kg
		Resistance to Unsnapping of snap fastness	ASTM D 4846:1996(2011)	2.04 kg - 407.7 kg
		Standard Consumer Safety Specification for Toy Safety	ASTM F 963 – 2011 (Requirements of 16 CFR 1500.3 (c) (6)(vi))	2.04 kg - 407.7 kg
6.	Toys/ Garments/ Garment Accessories	Safety of toys mechanical and physical properties:	BS EN 71-1:2011 EN 71-1:2011 EN 71-1:A3:2014	Qualitative
		General requirements:		Qualitative
		Material cleanliness	4.1	Qualitative
		Assembly	4.2	Qualitative
		Flexible plastic sheeting	4.3	Qualitative
		Toy bags	4.4	Qualitative
		Glass	4.5	Qualitative

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	Expanding materials	4.6	Qualitative
	Edges	4.7	Qualitative
	Points and metallic wires	4.8	Qualitative
	Protruding parts	4.9	Qualitative
	Parts moving against each other	4.10	Qualitative
	Mouth-actuated toys and other toys intended to be put in the mouth	4.11 < Excluding the following > 4.11c) and 4.11e)	Qualitative
	Balloons	4.12	Qualitative
	Cords of toy kites and other flying toys	4.13	Qualitative
	Enclosures	4.14	Qualitative
	Toys intended to bear the mass of a child	4.15 < Excluding the following > 4.15.1.3, 4.15.1.5, 4.15.1.6, 4.15.2, 4.15.5.3 and 4.15.5.5	Qualitative
	Heavy immobile toys	4.16	Qualitative
	Percussion caps specifically designed for in toys and toys using percussion caps	4.19	Qualitative
	Small balls	4.22	Qualitative
	Yo-yo balls	4.24	Qualitative

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Location 2

Toys intended for children under 36 months:

General requirements	5.1	Qualitative
Soft-filled toys and soft-filled parts of a toy	5.2	Qualitative
- Plastic sheeting	5.3	Qualitative
Cords, chains and electric cables in toys	5.4	Qualitative
Glass and porcelain	5.7	Qualitative
-Shape and size of certain toys	5.8	Qualitative
- Toys comprising monofilament fibres	5.9	Qualitative
- Small balls	5.10	Qualitative
- Small balls	5.11	Qualitative
Hemispheric-shaped toys	5.12	Qualitative
Suction cups	5.13	Qualitative
Straps intended to be worn fully or partially around the neck	5.14	Qualitative
Packaging	6	Qualitative
Warning and instructions for use	7	Qualitative
Test method	8	Qualitative
Torque	8.3	4.0 in.lbf
Drop test	8.5	Qualitative

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	Tension	8.4	5.8 N to 234N
	Compression	8.8	5.8 N to 234N
	Flexibility of wires	8.13	5.8 N to 234N
	Sharp point	8.12	Qualitative
	Small Parts	8.2	Qualitative
	Sharp edge	8.11	Qualitative
	Cords on toy	8.40	220mm to 300mm
	Film thickness	8.25	0.01 to 10.0 mm
	Physical and mechanical tests;	ASTM F963-11	Qualitative
	-Material Quality (Visual Inspection)	4.1	Qualitative
	-Small objects	4.6	Qualitative
		< Excluding the following >	
		4.6.2	
	-Accessible edges	4.7	Qualitative
	- Projections	4.8	Qualitative
	- Accessible points	4.9	Qualitative
	- Wires or rods	4.10	Qualitative
	- Nails and fasteners	4.11	Qualitative
	- Plastic film	4.12	Qualitative
	- Folding mechanisms and hinges	4.13	Qualitative
	- Cords, straps, and elastics	4.14	Qualitative
	- Confined spaces	4.16	Qualitative
	- Wheels, tires and axles	4.17	Qualitative

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		- Holes, clearance and accessibility of mechanisms	4.18	Qualitative
		- Simulated protective devices	4.19	Qualitative
		- Pacifiers	4.20	Qualitative
			<Excluding the following>	Qualitative
			4.20.1	Qualitative
		- Projectile toys	4.21	Qualitative
		- Teethers and teething toys	4.22	Qualitative
		- Rattles	4.23	Qualitative
		- Squeeze toys	4.24	Qualitative
		- Toys intended to be attached to a crib or playpen	4.26	Qualitative
		- Stuffed and beanbag-type toys	4.27	Qualitative
		- Stroller and carriage toys	4.28	Qualitative
		- Toy gun marking	4.30	Qualitative
		- Balloons	4.31	Qualitative
		- Certain toys with spherical ends	4.32	Qualitative
		- Marbles	4.33	Qualitative
		- Balls	4.34	Qualitative
		- Pompoms	4.35	Qualitative
		- Hemispheric-shaped objects	4.36	Qualitative
		- Yo yo elastic tether toys	4.37	Qualitative
		- Labeling requirements	5	Qualitative
		- Instructional literature	6	Qualitative
		- Producer's markings	7	Qualitative
		- Test methods	8	Qualitative

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	Normal Use Testing	8.5	Qualitative
	Abuse Testing	8.6	Qualitative
	Impact Tests	8.7	Qualitative
	Torque Tests for Removal of Components	8.8	4.0 in.lbf
	Tension Test for Removal of Components	8.9	5.8 N to 234N
	Compression Test	8.10	5.8 N to 234N
	Flexure Test	8.12	5.8 N to 234N
	Packaging Film Thickness	8.21	0.01 to 10.0 mm
	Physical and mechanical tests;	AS/NZS ISO 8124.1: 2010 + 2013 Amd. 1	Qualitative
	- Normal use	4.1	Qualitative
	- Reasonably foreseeable abuse	4.2	Qualitative
	- Material	4.3	Qualitative
	- Small parts	4.4	Qualitative
	- Shape, size and strength of certain toys	4.5	Qualitative
	- Edges	4.6	Qualitative
	- Points	4.7	Qualitative
	- Projections	4.8	Qualitative
	- Metal wires and rods	4.9	Qualitative
	- Plastic film or plastic bags in packaging and in toys	4.10	Qualitative
	- Cords and elastics	4.11	Qualitative
	- Folding mechanisms	4.12	Qualitative

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- Holes, clearances and accessibility of mechanisms	4.13	Qualitative
- Springs	4.14	Qualitative
Mouth-actuated toys	4.25 < Excluding the following > 4.25c)	Qualitative
- Test methods	5	Qualitative
- Safety labelling guidelines and	Annex C (Informative)	Qualitative
Physical and mechanical tests;		
- Technical requirements for determining a sharp point	16 CFR 1500.48	Qualitative
Technical requirements for determining a sharp metal or glass edge	16 CFR 1500.49	Qualitative
Test methods for simulating use and abuse of toys intended for use by children	16 CFR 1500.50, 1500.51, 1500.52 and 1500.53	
- Impact test		Qualitative
- Flexure test		Qualitative
- Torque test		4.0 in.lbf
- Tension test		5.8 N to 234N
- Compression test		5.8 N to 234N

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Location 2

	- Method for identifying choking, aspiration, or ingestion hazards because of small parts		16 CFR 1501 in conjunction with test methods specified in 16 CFR 1500.51 or 16 CFR 1500.52 [excluding bite test to 1500.51(c) or 1500.52 (c)]	Qualitative
	Flammability tests;		16 CFR Parts 1610 and 1500.44 ASTM F963-11 Cl. 4.2 AS/NZS ISO 8124.2: 2009 BS EN 71-2: 2011 EN 71-2: 2011 New EN 71-2+A1 :2014E <Excluding the following> for the above two standards Tests for flammable gases and flammable gels	(3.5-7.0)sec (0-0.1)inch/sec (10- 30)mm/sec (10- 30)mm/sec
	Drawstrings		ASTM F1816-97 16 CFR Part 1120	220mm to 300mm

Laboratory **SGS Lanka Private Limited, 141/7, 141/6, Vauxhall Street Colombo 2, Sri Lanka**
Location 1: 141/7, Vauxhall Street, Colombo-2, Sri Lanka
Location 2: 141/6, Vauxhall Street, Colombo-2, Sri Lanka

Accreditation Standard **ISO/IEC 17025: 2005**

Discipline **Mechanical Testing** **Issue Date** **15.09.2014**

Certificate Number **T-1136** **Valid Until** **14.09.2016**

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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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Location 2

II. PLASTIC

1.	Plastic films	Tensile properties of thin plastic sheeting	ASTM D882:2012 < Excluding the following > 10.9 & 10.10	2.04 kg 407.7 kg
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