

Laboratory	SGS India Pvt. Ltd., Consumer Testing Services, Hardline Lab, Plot No. 250, Udyog Vihar, Phase-IV, Gurgaon, Haryana		
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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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I. PLASTICS & PLASTIC PRODUCTS

1.	Polymer/ Plastics	Soiling & Clean ability	FLTM BN 112-08:2010	Qualitative Grade : 1 to 5, (Visual observation)
		Odor resistance	FLTM BO 131-01:2000 MS 300-34:2010 SAE J 1351:2008	Qualitative Grade : 1 to 4, Grade : 1 to 6, Grade : 1 to 5, (Visual observation)
		Migration Staining	FLTM BN 103-01:2001	Qualitative Grade: 1 to 5, (Visual observation)
		Flammability	ISO 3795:1989 MS 300-08:2004 MVSS-302:1999 SAEJ 369:2007 EDS T 7602:2006	Qualitative (1 to 999 mm/min) (LC: 0.5 sec)
		Crocking	FLTM BN 107-01:2001 MS 652-12:2004	Qualitative Grade : 1 to 5, (Visual observation)
		Resistance to temperature Cycling	EDS T 7007:1999	Qualitative Temp.: -40°C to 200°C, Humidity: 25% to 95%, LC: 0.1°C & Humidity: 0.1%Rh (Visual observation)

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	Polymer/ Plastics	Environmental Cycle	FLTM BQ 104-07:2000, HN 1311 CL-4:2004, GMW 14124:2007	Qualitative Temp.: -40°C to 200°C, Humidity: 25% to 95% LC: 0.1°C & Humidity: 0.1% Rh (Visual observation)
		Resistance to Low Temperature Impact	FLTM BO151-01:2001, MS 210-05 CI 4.10:2006	Qualitative Upto -40°C, LC. Temp: 0.1°C (Visual Observation)
		Weather ability or Fading Resistance for color fastness to light	MS 210-05 CI-4.5:2006, MS 210-06 CI-4.4.2:2006, JIS D 0205:1987, HN 1311 CI 4.4:2004, SAE J 2412:2004, SAE J 2527:2004, ISO 105-B06:1998 Amend 1:2002	Qualitative Grey Scale Grade – Rating : 5 to 1 BPT: 38°C to 105°C (Visual Observation)
		Bond Strength of Trim Assemblies	FLTM BN 113-01 : 2001	25 kgf to 1000 kgf, LC: 0.5 kN (Visual Observation)
		Bond Strength of Trim Assemblies	FLTM BN 123-01 : 2001	25 to 1000 kgf, (Visual Observation)

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	Polymer/ Plastics	Heat Ageing	WSS M15P4E : 2009, WSK M98P5-A:1990, WSK M98P6-A:1996, WSK M98P9-A:1993, MS 210-05 CI-4.4:2006, MS 652-14 CI-5.6:2006, EDS T 7007 CI-5.3:1999, HN 1311 CI-4.3:2004	Qualitative (30°C to 250°C)
		Acid Spotting of Finished Part	FLTM BI 113-05 : 2001	Qualitative
		Wear Resistance	MS 210-05:2006,CI-4.8	Qualitative Grade: 1 to 5
		Melt Flow Index	ASTM D 1238 : 2010, ISO 1133-1 & 2:2011	(0.15 to 1500) g/10 min
		Fogging Resistance	SAE J 1756 : 2006	Upto 100% for reflection Fog Mas: 0.0001g to 80 g
		Scratch Resistance	FLTM BN 108-13 :2001, MS 652-12 CI-5.4:2004, MS 210-05 CI-4.9:2006	Qualitative Grade: 1 to 5 (Visual Observation)
		Tensile Strength	ASTM D 638 : 2010, ISO 527-1:2012 ISO 527-2:2012	UTM R: 0.5 MPa to 1000 MPa, L.C: 0.5 MPa

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	Polymer/ Plastics	Elongation	ASTM D 638 : 2010, ISO 527-1:2012, ISO 527-2:2012	Extension: Upto 400 mm
		Flexural Modulus	ASTM D 790 : 2010, ISO 178:2010 AMD1:2013	UTM R: 0.5 MPa to 1000 MPa, L.C: 0.5 MPa
		Abrasion Resistance Test	FLTM BN 108-02:2001 MS 300-31 Cl-4.19:2002	Qualitative (Visual Observation)
		Humidity Ageing	MA -0310:2004	Qualitative Temp.: 25°C to 80°C & Humidity: 10% to 98% (Visual Observation)
		Thermal Oxidation	HN 1311 Cl 4.17 : 2004	Qualitative
		Density / Specific Gravity	ASTM D 792:2008 ISO 1183-1:2011	0.5 g/cc to 5 g/cc
		Izod Impact	ISO 180:00, Amd1:2006, Amd 2:2013 ASTM D 256:2010	2 J to 25 J
		Charpy Impact	ASTM D 6110-2010, ISO 179-1:2010, ISO 179-2:1997 Amd 2011	2 J to 11 J 1 J to 11 J

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	Polymer/ Plastics	Heat Deflection Temperature	ASTM D 648:2007 ISO 75-1, 2:2013	Up to 300°C
		Vicat Softening Temperature	ASTM D 1525:2009 ISO 306:2004	Upto 300°C
		UV Test	ASTM G 154:2012a	Qualitative Grey Scale Grade- Rating: 5 to 1 (Visual Observation)
		Vibration Test	JIS D 1601:1995	Qualitative Force: 1000 kgf max, Acceleration: 100 g max, Frequency: 5 to 3500 Hz (Visual Observation)
2.	Painted Parts	Paint Adhesion	FLTM BI 106-01:2002 ISO 2409:2013	Grade: 0 to 10 Grade: 0 to 5 (Visual Observation)
3.	Plastics/ Rubber	Shore A and Shore D Hardness Test	BS EN ISO 868:2003, DIN 53505:2000, ASTM D 2240:2010	Hardness : Upto 100 Shore A & Shore D

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4.	Hardgoods/ Glass Containers	Annealing Test	ASTM F 2179:2007 (Scratch Test)	Visual Observation
		Thermal Shock Resistance of Glass Containers	ASTM F 2179:2013 (ASTM C149:2010), EN 1183:1977	Visual Observation
		Cross Cut Adhesion	ASTM D 3359:2009	Scale: 0 to 5
		Crocking	AATCC-8:2013 ISO-105X12:2001	Qualitative Grade: 1 to 5, (Visual Observation)
5.	Hardgoods/ Candle	Product safety of labels	EN 15494:2007	Visual Observation
		Specification for sooting behavior	EN 15426:2007	Visual Observation
		Candle fire safety Labeling	ASTM F 2058:2007	Visual Observation
		Candle burning Performance, Stability, Tea light cup stability test	ASTM F 2417:2011	Visual Observation
		Burning performance, Flame height, Stability	EN 15493:2007	Visual Observation
		Labeling/Packaging	16 CFR 500.500.7:2013 16 CFR 501.7:2013 16 CFR 500.27:2013 16 CFR 500.28:2013	Visual Observation
		Country of Origin Marking	19 CFR 134:2013	Visual Observation

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	Hardgoods/ Candle	Fire Safety for Candle Accessories	ASTM F 2601:2012	Visual Observation
6.	Hardgoods/ Oil Lamp's	Oil Lamp Testing	EN 14059:2002	Visual Observation
7.	Hardgoods/ Packaging (Corrugated Boards)	Thickness Test	ISO 3034:2011	Upto 25 mm, LC: 0.01 mm
		Bursting Strength Test	ISO 2759:2001 IS 1060-1:1966, TAPPI 810:2011	5 kg/cm ² to 25 kg/cm ² LC: 1 kg/cm ²
		Puncture Resistance Test	ISO 3036:1975, IS 4006 Part 2: R 2002, TAPPI 803:2010	0 to 1600 Beach unit LC. Scale A: 20, Scale B: 40 Scale C: 100
		Cobb Test	IS 1060 Part 1:1966 ISO 535:1991 T441:2013	8 g/m ² to 450 g/m ²
		Compression Test	TAPPI 804:2004 IS 7028 Part 6:2002	100 kgf to 1000 kgf LC: 0.1 kgf
		Moisture Content	ISO 287:2009 IS 1060 Part-1:1996, Amd 5, 2011	Upto 250°C L.C.: 1°C
		GSM	TAPPI 410:2013 ISO 536:2012	350 g/m ² to 1900 g/m ² LC: 0.01 mg

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	Hardgoods/ Packaging (Corrugated Boards)	Transit Test	ISTA 1A:2001 ISTA 2A:2011 ISTA 1C:2001	Packaged Products: 150 lb (68kg) or less LC.:1 RPM
		Vibration Testing of the shipping Containers	ASTM D 999:2008	RPM : Upto 300, Scale Upto 1000 mm, (Visual Observation)
		Compressive Resistance of the Shipping Container	ASTM D 642:2010	Load : Upto 2000 kgf, LC: 0.1 kgf
		Drop Test of the Container by free fall	ASTM D 5276:2009	Scale: Upto 1000 mm, Weight: 100 kg (Visual Observation)

II. TOYS & GAMES

1.	Toys and Children Products	Safety of toys – Mechanical and physical properties	BS EN 71-1:2011/ EN 71-1:2011, NF EN 71-1:2011	
	Flexible Plastic Sheeting (Clause 4.3), Toy bags (Clause 4.4), Glass Components (Clause 4.5), Expanding Materials (Clause 4.6)	Material cleanliness	Clause 4.1	Visual Observation
		Assembly	Clause 4.2	Visual Observation
		Thickness Test	Clause 8.25.1	Dial Thickness Gauge: 0 to 1 mm, LC: 0.001 mm
		Dimension (Opening perimeter and area)	Clause 4.4	Scale: 0 to 1000 mm LC: 0.1 mm
		Drop test	Clause 8.5	Scale: 0 to 1000 mm LC: 0.1 mm

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		Impact test	Clause 8.7	Scale:0 to 1000 mm LC: 0.1 mm, Wt: 1 kg
		Sharpness of edges Test	Clause 8.11	VC: Upto 200 mm, LC: 0.001 mm Rockwell: 20 to 70 HRA, LC: 0.1 HRC
		Sharpness of points test	Clause 8.12	Visual Observation
		Dimension	Clause 4.6	Scale: 0 to 1000 mm LC: 0.1 mm
		Small parts Cylinder	Clause 8.2	Visual Observation
		Torque test	Clause 8.3	Torque Gauge Upto 60 cNm,
		Tension test	Clause 8.4.2.1	Push Pull Gauge: 0 to 500 N, LC: 0.1 N
		Drop Test	Clause 8.5	Scale: 0 to 1000 mm, LC: 0.1 mm
		Impact test	Clause 8.7	Scale: 0 to 1000 mm, LC: 0.1 mm, Wt: 1kg
		Compression Test	Clause 8.8	Push Pull Gauge: 0 to 500 N, LC: 0.1 N

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		Expanding materials Test	Clause 8.14	Env Chamber: Temp. -40 to 180 °C LC: 0.1°C Humidity: 10 to 98% LC: 0.1% Rh Oven: Upto 250°C
	Edges Components (Clause 4.7)	Sharpness of edges Test	Clause 8.11	VC: Upto 200 mm, LC: 0.001 mm
	Points and metallic wires (Clause 4.8)	Sharpness of points Test	Clause 8.12	Rockwell: 20 to 70 HRA, LC: 0.1 HRC
	Protruding parts (Clause 4.9)	Bent test	Clause 8.13.2 and 8.13.3	Visual Observation
		Tension test	Clause 8.4.2.3	Push Pull Gauge: R: 0 to 500 N, LC: 0.1N
	Parts moving against each other- Folding and sliding mechanisms (Clause 4.10)	Sharpness of edges test	Clause 8.11	Push Pull Gauge: 0-500N, LC: 0.1N
		Sharpness of points test	Clause 8.12	VC: Upto 200 mm, LC: 0.001 mm
	Parts moving against each other - Driving mechanisms (Clause 4.10.2)	Dimension	Clause 4.10	Rockwell: 20 to 70 HRA, LC: 0.1 HRC
		Toy pushchairs and perambulators test	Clause 8.18.2	Visual Observation

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		Collapsible toys test	Clause 8.18.3	Scale: 0 to 1000 mm, LC: 0.1 mm
		Sharpness of edges Test	Clause 8.11	Visual Observation
		Sharpness of points Test	Clause 8.12	Visual Observation
		Drop test	Clause 8.5	VC: Upto 200 mm, LC: 0.001mm
		Impact test	Clause 8.7	Rockwell: 20 to 70 HRA, LC: 0.1 HRC
		Tip over test	Clause 8.6	Visual Observation Scale: 0 to 1000 mm, LC: 0.1 mm Scale: 0 to 1000 mm LC: 0.1 mm, Wt: 1kg Visual Observation
	Mouth-actuated toys and other toys intended to be put in the mouth (Clause 4.11)	Dimension	Clause 4.11	Scale: 0 to 1000 mm, LC: 0.1 mm
		Small parts cylinder	Clause 8.2	Visual Observation
		Soaking test	Clause 8.9	Visual Observation
		Torque test	Clause 8.3	Torque Gauge Upto 60 cNm

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	Balloons (Clause 4.12) Enclosures-, Toys which a child can enter (Clause 4.14) Enclosures -Masks and helmets (Clause 4.14.2)	Tension test	Clause 8.4.2.1	Push Pull Gauge: 0-500 N, LC: 0.1 N
		Warning label review	Clause 4.12	Visual Observation
		Dimension and area	Clause 4.14.1	Scale: 0 to 1000 mm, LC: 0.1 mm
		Durability test	Clause 8.31.2	Visual Observation
		Sharpness of edges Test	Clause 8.11	VC: Upto 200 mm, LC: 0.001 mm Rockwell: 20 to 70 HRA, LC: 0.1 HRC
		Sharpness of Points Test	Clause 8.12	Visual Observation
		Torque test	Clause 8.3	Torque Gauge Upto 60 cNm
		Tension test	Clause 8.4.2.1	Push Pull Gauge: 0-500 N, LC: 0.1 N
		Drop test	Clause 8.5	Scale: 0 to 1000 mm, LC: 0.1 mm
		Impact test	Clause 8.7	Scale: 0 to 1000 mm, LC: 0.1 mm, Wt: 1kg

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	Toys intended to bear the mass of a child- Toys propelled by a child or by other means (Clause 4.15.1)	Warnings and instructions	Clause 4.15.1	Visual Observation
		Static Strength	Clause 4.15.1.3, 8.21	Load: 50 kg, 0.5 kg, 20 kg, 0.2 kg
		Sharpness of edges test	Clause 8.11	VC: Upto 200 mm, LC: 0.001 mm Rockwell:20to70HRA, LC: 0.1HRC
		Sharpness of points test	Clause 8.12	Visual Observation
	Aquatic toys and inflatable toys (Clause 4.18)	Stability	Clause 4.15.1.4 ,8.23.1	Visual Observation
		Dimension	Clause 4.18	Scale:0 to 1000 mm, LC: 0.1 mm
		Torque test	Clause 8.3	Torque Gauge R: Upto 60 cNm
		Tension test	Clause 8.4.2.1	Push Pull Gauge: R: 0 to 500 N, LC: 0.1N
	Small balls (Clause 4.22)	Small parts cylinder	Clause 8.2	Visual Observation
		Dimension, Drop test	Clause 4.22,8.5	Scale:0 to 1000 mm, LC: 0.1 mm
		Free Suspension test thru the template	Clause 8.32.2	Visual Observation

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		Torque test	Clause 8.3	Torque Gauge R: Upto 60 cNm
		Tension Test	Clause 8.4.2.1	Push Pull Gauge: R: 0 to 500 N, LC: 0.1N
		Warnings and instructions	Clause 4.15.1	Visual Observation
		Static Strength	Clause 4.15.1.3 ,8.21	Load: 50 kg, 0.5 kg, 20 kg, 0.2 kg
		Impact test	Clause 8.7	Scale:0 to 1000 mm, LC: 0.1 mm, Wt: 1kg
	Small balls (Clause 4.22)	Tip over test	Clause 8.6	Visual Observation
		Compression Test	Clause 8.8	Push Pull Gauge: R: 0 to 500 N, LC: 0.1N
	Toys attached to food (Clause 4.25)	Small parts cylinder	Clause 8.2	Visual Observation
		Pass of thru the template	Clause 8.32.1	Visual Observation
		Torque test	Clause 8.3	Torque Gauge R: Upto 60 cNm
		Tension test	Clause 8.4.2.1	Push Pull Gauge: R: 0 to 500 N, LC: 0.1N

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	Toys intended for children under 36 months (Clause-5)	Drop test	Clause 8.5	Scale: 0 to 1000 mm, LC: 0.1 mm
		Impact test	Clause 8.7	Scale: 0 to 1000 mm, LC: 0.1 mm, Wt: 1kg
		Compression test	Clause 8.8	Push Pull Gauge: R: 0 to 500 N, LC: 0.1N
		General Requirement	Clause 5.1	Visual Observation
		Small parts cylinder	Clause 8.2	Visual Observation
		Torque test	Clause 8.3	Torque Gauge R: Upto 60 cNm
		Tension test	Clause 8.4.2.1	Push Pull Gauge: R: 0 to 500 N, LC: 0.1N
		Drop test	Clause 8.5	Scale: 0 to 1000 mm, LC: 0.1 mm
		Impact test	Clause 8.7	Scale: 0 to 1000 mm, LC: 0.1 mm, Wt: 1kg
		Compression test	Clause 8.32.1	Push Pull Gauge: R: 0 to 500 N, LC: 0.1N

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	Toys intended for children under 36 months (Clause-5)	Sharpness of edges test	Clause 8.11	VC:R: Upto 200 mm, LC: :0.001mm Rockwell:20to70HRA, LC: 0.1HRC
		Sharpness of Points test	Clause 8.12	Visual Observation
		Tip over test	Clause 8.6	Visual Observation
	Soft-filled toys and soft-filled parts of a toy (Clause-5.2)	Small parts cylinder	Clause 8.2	Visual Observation
		Tension test	Clause 8.4.2.2	Push Pull Gauge: R: 0 to 500 N, LC: 0.1N
	Plastic sheeting (Clause-5.3)	Accessibility of part or component	Clause 8.10	Visual Observation
		Adhesion Test	Clause 8.25.2	Push Pull Gauge: R: 0 to 500 N, LC: 0.1N
		Tension test	Clause 8.4.2	Push Pull Gauge: R: 0 to 500 N, LC: 0.1N
	Cords, chains and electrical cables in toys (Clause 5.4)	Thickness test	Clause 8.25.1+	Dial Thickness Gauge: R:0-1mm, L.C-0.001mm
		Static strength	Clause 8.20	Load:50kg,0.5kg, 20kg,0.2kg

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		Breakaway feature separation test	Clause 8.38	Visual Observation
		Length	Clause 8.40	Scale:0 to 1000 mm, LC: 0.1 mm
		Perimeter	Clause 8.36	Scale:0 to 1000 mm, LC: 0.1 mm
	Liquid-filled toys (Clause 5.5)	Leakage of liquid-filled toys	Clause 8.15	Visual Observation
		Drop test	Clause 8.5	Scale:0 to 1000 mm, LC: 0.1 mm
	Glass and porcelain (Clause 5.7)	Impact test	Clause 8.7	Scale:0 to 1000 mm, LC: 0.1 mm, Wt: 1kg
	Shape and size of certain toys (Clause 5.8)	Sharpness of edges test	Clause 8.2	VC:R: Upto 200 mm, LC: :0.001mm Rockwell:20to70HRA, LC: 0.1HRC
	Toys comprising monofilament fibres (Clause 5.9)	Sharpness of points test	Clause 8.12	Visual Observation
		Geometric shape of certain toys	Clause 8.16	Visual Observation
	Small balls (Clause 5.10)	Dimension and warning label review	Clause 5.9	Scale:0 to 1000 mm, LC: 0.1 mm

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		Small balls and suction Cups	Clause 8.32.1	Visual Observation
		Small balls attached to a toy by a cord	Clause 8.32.2	Visual Observation
		Torque test	Clause 8.3	Torque Gauge R: Upto 60 cNm,
		Tension test	Clause 8.4.2.1	Push Pull Gauge: R: 0 to 500 N, LC: 0.1N
	Small balls (Clause 5.10)	Drop test	Clause 8.5	Scale:0 to 1000 mm, LC: 0.1 mm
	Play figures (Clause 5.11)	Impact test	Clause 8.7	Scale:0 to 1000 mm, LC: 0.1 mm, Wt: 1kg
	Hemispheric- shaped toys (Clause 5.12)	Compression test	Clause 8.8	Push Pull Gauge: R: 0 to 500 N, LC: 0.1N
		Soaking test	Clause 8.9	Visual Observation
		Tip over test	Clause 8.6	Visual Observation
		Dimension	Clause-5.11	Scale:0 to 1000 mm, LC: 0.1 mm
		Test for play figures	Clause 8.33	Visual Observation
		Geometric shape of certain toys Test	Clause 8.16	Visual Observation

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		Dimension	Clause 5.12	Scale:0 to 1000 mm, LC: 0.1 mm
		Torque test	Clause 8.3	Torque Gauge R: Upto 60 cNm,
		Tension test	Clause 8.4.2.1	Push Pull Gauge: R: 0 to 500 N, LC: 0.1N
		Drop test	Clause 8.5	Scale:0 to 1000 mm, LC: 0.1 mm
		Impact test	Clause 8.7	Scale:0 to 1000 mm, LC: 0.1 mm, Wt: 1Kg
		Compression test	Clause 8.8	Push Pull Gauge: R: 0 to 500 N, LC: 0.1N
		Soaking test	Clause 8.9	Visual Observation
	Hemispheric- shaped toys (Clause 5.12) Suction cups(Claue 5.13)	Tip over test	Clause 8.6	Visual Observation
		Torque test	Clause 8.3	Torque Gauge R: Upto 60 cNm
		Tension test	Clause 8.4.2.1	Push Pull Gauge: R: 0 to 500 N, LC: 0.1N
		Drop test	Clause 8.5	Scale:0 to 1000 mm, LC: 0.1 mm

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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
	Straps intended to be worn fully or partially around theneck (Clause 5.14)	Impact test	Clause 8.7	Scale:0 to 1000 mm, LC: 0.1 mm, Wt: 1kg
		Compression test	Clause 8.8	Push Pull Gauge: R: 0 to 500 N, LC: 0.1N
	Packaging (Clause 6)	Pass of thru the template	Clause 8.32.1	Visual Observation
		Tip over test	Clause 8.6	Visual Observation
		Breakaway feature separation test	Clause 5.14,8.38	Push Pull Gauge: R: 0 to 500 N, LC: 0.1N
		Dimension	Clause 6	Scale:0 to 1000 mm, LC: 0.1 mm
		Thickness Test	Clause 8.25.1	Dial Thickness Gauge: R:0-1mm, L.C-0.001mm
	Packaging (clause 6)	Pass of thru the template	Clause 8.32.1	Visual Observation
		Torque test	Clause 8.3	Torque Gauge R: Upto 60 cNm,
		Tension test	Clause 8.4.2.1	Push Pull Gauge: R: 0 to 500 N, LC: 0.1N

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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
	Warnings, markings and instructions for use(Clause 7)	Dimension, warning Label review	Clause 7.7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.8, 7.9, 7.11, 7.12, 7.13, 7.16, 7.17, 7.19, 7.21, 7.22,)	Scale: 0 to 1000 mm, LC: 0.1 mm
	Toys and children Products	Standard Consumer Safety Specification for Toy Safety	ASTM F 963-2011	
		Material Quality	Clause 4.1	Visual Observation
		Flammability (Other than textile)	Clause 4.2	Scale: 0 to 1000 mm, Least Count: 0.1 mm , Stop Watch: 0 to 99 min, Least Count: 1/100 sec
		Small objects test	Clause 4.6	Visual Observation
		Edges test	Clause 4.7, 8.5, 8.6, 8.7, 8.8, 8.9 and 8.10	VC: R: Upto 200 mm, LC: : 0.001 mm Rockwell: 20 to 70 HRA, LC: 0.1 HRC
		Projections test	Clause 4.8, 8.5 to 8.10	Push Pull Gauge: R: 0-110 lbf, LC: 0.1 lbf , Torque Gauge R: Upto 60 cNm
		Points test	Clause 4.9, 8.5 to 8.10	Visual Observation

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	Wires or Rods (Clause 4.10)	Flexure Test	Clause 8.12	Visual Observation
		Tension Test	Clause 8.9	Push Pull Gauge: R: 0-110lbf, LC: 0.1lbf
	Nails and Fasteners (Clause 4.11)	Sharp edges test	Clause 4.11	VC:R: Upto 200 mm, LC: :0.001mm Rockwell:20to70HRA, LC: 0.1HRC
	Packaging film (Clause 4.12)	Sharp point test	Clause 4.17	Visual Observation
		Dimension	Clause 4.12	Scale:0 to 1000 mm, LC: 0.1 mm
	Folding Mechanism and hings (Clause 4.13)	Thickness test	Clause 8.21	Dial Thickness Gauge: R:0-1mm, L.C-0.001mm
		Impact Tests	Clause 8.7	Scale:0 to 1000 mm, LC: 0.1 mm
		Drop Test	Clause 8.7.1	Visual Observation
		Torque Test	Clause 8.8	Torque Gauge R: Upto 60 cNm
		Tension Test	Clause 8.9	Push Pull Gauge: R:0-110lbf, LC: 0.1lbf

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	Cords, Straps & Elastic's (Clause 4.14)	Compression	Clause 8.10	Push Pull Gauge: R:0-110lbf, LC: 0.1lbf
		Locking Test Method	Clause 8.25	Push Pull Gauge: R:0-110lbf, LC: 0.1lbf
		Dimension	Clause 8.5 to 8.10,8.22 (Excluded 4.14.4)	Scale:01000mm, LC: 0.1 mm
	Stability and Over- Load Requirements (Clause 4.15)	Stability & Overload Test	Clause 4.15	Visual Observation
	Confined Spaces (Clause 4.16)	Ventilation	Clause 4.16.1	Scale:0 to 1000 mm, LC: 0.1 mm ,Visual
		Closures Test	Clause 4.16.2	Push Pull Gauge: R:0-110lbf, LC: 0.1lbf
	Wheels, Tires, and Axl-(Clause 4.17)	Impact Test	Clause 8.7	Scale:0 to 1000 mm, LC: 0.1 mm ,Visual
		Torque Test	Clause 8.8	Torque Gauge R: Upto 60 cNm
		Tension Test	Clause 8.9	Push Pull Gauge: R:0-110lbf, LC: 0.1lbf
		Compression test	Clause 8.10	Push Pull Gauge: R:0-110lbf, LC: 0.1lbf

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	Holes, Clearance and accessibility of mechanism (Clause 4.18)	Accessibility test	Clause 48.5 to 8.10	Visual Observation
		Impact tests	Clause 8.7	Visual Observation
		Drop test	Clause 8.7.1	Visual Observation
		Torque test	Clause 8.8	Torque Gauge R: Upto 60 cNm
		Tension test	Clause 8.9	Push Pull Gauge: R:0-110lbf, LC: 0.1lbf
		Compression test	Clause 8.10	Push Pull Gauge: R:0-110lbf, LC: 0.1lbf
	Simulated protective devices such as Helmets (Clause 4.19)	Impact Tests	Clause 8.7	Visual Observation
		Drop Test	Clause 8.7.1	Visual Observation
		Impact Test	Clause 8.7	Scale:0 to 1000 mm, LC: 0.1 mm
		Torque Test	Clause 8.8	Torque Gauge R: Upto 60 cNm
		Tension Test	Clause 8.9	Push Pull Gauge: R:0-110lbf, LC: 0.1lbf
		Compression test	Clause 8.10	Push Pull Gauge: R:0-110lbf, LC: 0.1lbf

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	Pacifiers (Clause 4.20)	Safety requirement ,Dimension	Clause 16 CFR 1511	Scale:0 to 1000 mm, LC: 0.1 mm
	Teethers and teething Toys (Clause 4.22)	Dimension ,Safety requirement	Clause 16 CFR 1510	Scale:0 to 1000 mm, LC: 0.1 mm
	Rattles (Clause 4.23)	Dimension ,Safety requirement	Clause 16 CFR 1510	Scale:0 to 1000 mm, LC: 0.1 mm
	Squeeze Toys (Clause 4.24)	Dimension ,Safety requirement	Clause 16 CFR 1510	Scale:0 to 1000 mm, LC: 0.1 mm
	Battery-Operated Toys (Clause 4.25)	Performance test	Clause 4.25 (Excluded 4.25.10)	Visual Observation
	Toys Intended to be Attached to a crib or Playpen (Clause 4.26)	Impact Tests	Clause 8.7	Scale:0 to 1000 mm, LC: 0.1 mm
		Drop Test	Clause 8.7.1	Scale:0 to 1000 mm, LC: 0.1 mm
	Toys Intended to be Attached to a crib or Playpen (Clause 4.26)	Torque Test	Clause 8.8	Torque Gauge R: Upto 60 cNm
		Tension Test	Clause 8.9	Push Pull Gauge: R:0-110lbf, LC: 0.1lbf
		Compression	Clause 8.10	Push Pull Gauge: R:0-110lbf, LC: 0.1lbf

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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
	Stuffed and Beanbag-Type Toys (Clause 4.27)	Tension test	Clause 8.9.1	Push Pull Gauge: R:0-110lbf, LC: 0.1lbf
	Stroller and Carriage Toys	Safety Label Review	Clause 4.28	Visual Observation
		Dimension, Safety Label Review	Clause 4.30	Scale:0 to 1000 mm, LC: 0.1 mm
	Toy Gun Marking (Clause 4.30)	Dimension , Warning Label Review	Clause 4.31	Scale:0 to 1000 mm, LC: 0.1 mm
	Balloon (Clause 4.31)	Dimension	Clause 4.32	Scale:0 to 1000 mm, LC: 0.1 mm
	Certain Toy with spherical End (Clause 4.32)			
	Marbles (Clause 4.33)	Label Review	Clause 16 CFR 1500.19	Visual Observation
	Balls (Clause 4.34)	Performance test	Clause 16 CFR 1500.18	Visual Observation
	Pompoms (Clause 4.35)	Tension Test	Clause 8.16	Push Pull Gauge: R:0-110lbf, LC: 0.1lbf

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	Hemisphere - Shaped Objects (Clause 4.36)	Dimension	Clause 8.6 to 8.10	Scale:0 to 1000 mm, LC: 0.1 mm
		Impact Tests	Clause 8.7	Scale:0 to 1000 mm, LC: 0.1 mm
		Drop Test	Clause 8.7.1	Scale:0 to 1000 mm, LC: 0.1 mm
		Torque Test	Clause 8.8	Torque Gauge R: Upto 60 cNm
		Tension Test	Clause 8.9	Push Pull Gauge: R:0-110lbf, LC: 0.1lbf
		Compression Test	Clause 8.10	Push Pull Gauge: R:0-110lbf, LC: 0.1lbf
		Label Review	Clause 5	Visual Observation
		Instructional Literature Review	Clause 6	Visual Observation
		Producer's Marking review	Clause 7	Visual Observation
		General	Clause 8.1	Visual Observation
		Normal Use Testing	Clause 8.5	Visual Observation
		Impact Test	Clause 8.7	Scale:0 to 1000 mm, LC: 0.1 mm

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		Torque Test	Clause 8.8	Torque Gauge R: Upto 60 cNm
		Tension Test	Clause 8.9	Push Pull Gauge: R:0-110lbf, LC: 0.1lbf
	Packaging Film (Clause 8.21)	Compression Test	Clause 8.10	Push Pull Gauge: R:0-110lbf, LC: 0.1lbf
	Loops and Cords (Clause 8.22)	Flexure test	Clause 8.12	Push Pull Gauge: R:0-110lbf, LC: 0.1lbf
		Tension Test	Clause 8.16	Push Pull Gauge: R:0-110lbf, LC: 0.1lbf
		Thickness Test	Clause 8.21	Dial Thickness Gauge: R:0-1mm, L.C-0.001mm
		Dimension	Clause 8.22	Scale:0 to 1000 mm, LC: 0.1 mm
		Accessibility Test	16 CFR 1500.48, 1500.49	Visual Observation
		Sharp edge Test	16 CFR 1500.48, 1500.49	VC:R: Upto 200 mm, LC. :0.001mm
		Sharp point test	16 CFR 1500.48, 1500.49	Rockwell:20to70HRA, LC: 0.1HRC

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		Small Part Test	16 CFR 1501	Visual Observation
		Torque test	16 CFR 1500.51 16 CFR 1500.52 16 CFR 1500.53	Visual Observation
		Tension test	16 CFR 1500.51 16 CFR 1500.52	Torque Gauge R: Upto 60cNm
		Flammability of Solids	16 CFR 1500.53 16 CFR 1500.44	Push Pull Gauge: R:0-110 lbf, LC: 0.1 lbf Scale:0 to 1000 mm LC: 0.1 mm, StopWatch:0 to 99 min, LC: 1/100 s
	Toys and children Products Normal use (Clause 4.1)	Safety aspects related to mechanical and physical properties	ISO 8124-1:2012, AS/NZS ISO 8124-1:2013	
		General	Clause 5.1	Visual Observation
		Small parts test	Clause 5.2	Visual Observation
		Test for shape and size of certain toys	Clause 5.3	Visual Observation
		Performance test	Clause 5.4	Visual Observation
		Performance test	Clause 5.5	Visual Observation
		Performance test	Clause 5.6	Visual Observation

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		Accessibility of a part or component test	Clause 5.6	Visual Observation
		Sharp-edge test	Clause 5.8	VC:R: Upto 200 mm, LC: :0.001mm Rockwell:20to70HRA, LC: 0.1HRC
		Sharp-point test	Clause 5.9	Visual Observation
		Thickness test	Clause 5.10	Dial Thickness Gauge: R:0-1mm, L.C-0.001mm
		Dimension	Clause 5.11	Scale:0 to 1000 mm LC: 0.1 mm
		Stability and overload tests	Clause 5.12	Visual Observation
		Impact test	Clause 5.14	Scale:0 to 1000 mm LC: 0.1 mm, Wt: 16.9±0.7g
		Leakage of liquid-filled toys	Clause 5.19	Visual Observation
		Expanding materials Test	Clause 5.21	Env Chamber: Temp. -40 to 180 °C LC.:0.1°C Humidity:10 to 98% LC: 0.1%RH Oven:upto250°C

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	Materials (Clause 4.3)	Performance test	Clause 5.22	Visual Observation
		Reasonably foreseeable abuse tests	Clause 4.2	Visual Observation
		Drop test	Clause 5.24.2	Scale: 0 to 1000 mm, LC: 0.1 mm
		Tip-over test for large and bulky toys	Clause 5.24.3	Visual Observation
		Torque test	Clause 5.24.5	Torque Gauge R: Upto 60 cNm
		Tension test	Clause 5.24.6	Push Pull Gauge: R: 0 to 500 N, LC: 0.1 N
		Compression test	Clause 5.24.7	Push Pull Gauge: R: 0 to 500 N, LC: 0.1 N
		Flexure test	Clause 5.24.8	Push Pull Gauge: R: 0 to 500 N, LC: 0.1 N
		Material quality	Clause 4.3	Visual Observation
		Small parts test	Clause 5.2	Visual Observation
		Expanding materials	Clause 5.21	Env Chamber: Temp. -40 to 180 °C LC: 0.1°C Humidity: 10 to 98% LC: 0.1%RH

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		Reasonably foreseeable abuse tests	Clause 5.24	Oven:upto250°C Visual Observation
		Drop test	Clause 5.24.2	Scale:0 to 1000 mm, L C:0.1 mm
	Materials (Clause 4.3)	Tip-over test for large and bulky toys	Clause 5.24.3	Visual Observation
	For Children Under 36 Months (Clause4.4)	Torque test	Clause 5.24.5	Torque Gauge R: Upto 60 cNm
	For children 36 Months And Over but Under 72 Months (Clause 4.4.2)	Tension test	Clause 5.24.6	Push Pull Gauge: R: 0 to 500 N, LC: 0.1N
		Compression test	Clause 5.24.7	Push Pull Gauge: R: 0 to 500 N, LC: 0.1N
		Flexure test	Clause 5.24.8	Push Pull Gauge: R: 0 to 500 N, LC: 0.1N
	Shape, Size and Strength of Certain Toys (Clause 4.5)	Reasonably foreseeable abuse tests	Clause 5.24	Visual Observation
	Edges Components (Clause 4.6)	Small parts test	Clause 5.2	Visual Observation
		Small parts test	Clause 5.2	Visual Observation

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		Shape, size and strength of certain toys test	Clause 4.5	Visual Observation
		Sharp-edge test	Clause 5.8	VC: Upto 200 mm, LC: 0.001mm
		Compression test	Clause 5.24.7	Rockwell: 20 to 70 HRA, LC: 0.1HRC
		Reasonably foreseeable abuse tests	Clause 5.24	Push Pull Gauge: R: 0 to 500 N, LC: 0.1N Visual Observation
	Edges Components (Clause 4.6)	Torque test	Clause 5.24.5	Torque Gauge R: Upto 60 cNm
		Tension test	Clause 5.24.1	Push Pull Gauge: R: 0 to 500 N, LC: 0.1N
	Points Components (Clause 4.7)	Sharp-point test	Clause 4.7	Visual Observation
	Projections (Clause 4.8)	Drop test	Clause 5.24.2	Scale:0 to 1000 mm, LC: 0.1 mm
		Tip-over test for large and bulky toys	Clause 5.24.3	Visual Observation
		Torque test	Clause 5.24.5	Torque Gauge R: Upto 60 cNm

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	Metal Wires and Rods (Clause 4.9)	Tension test	Clause 5.24.6	Push Pull Gauge: R: 0 to 500 N, LC: 0.1N
		Compression test	Clause 5.24.7	Push Pull Gauge: R: 0 to 500 N, LC: 0.1N
	Plastic Film or Plastic Bags in Packaging (Clause 4.10)	Flexure test	Clause 5.24.8	Push Pull Gauge: R: 0 to 500 N, LC: 0.1N
		Bent Test	Clause 5.24.8.2 and 5.24.8.3	Push Pull Gauge: R: 0 to 500 N, LC: 0.1N
		Tension test	Clause 5.24.6.4	Visual Observation VC:R: Upto 200 mm, LC: :0.001mm
		Sharp-edge test	Clause 5.8	Rockwell:20to70HRA, LC: 0.1HRC
		Sharp-point test	Clause 5.9	Visual Observation
		Thickness Test	Clause 5.10	Dial Thickness Gauge:R:0-1mm, L.C-0.001mm

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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
	Cords and Elastics (Clause 4.11)	Thickness Test	Clause 5.11.1	Vernier caliper: R: Upto 200 mm, LC: 0.001mm
	Folding mechanisms (Clause 4.12)	Toy pushchairs and perambulators test	Clause 5.22.2	Visual Observation
	Holes, Clearances and Accessibility of Mechanisms (Clause 4.13) Springs (Clause 4.14)	Folding mechanisms test	Clause 5.22.3	Visual Observation
		Accessibility of a part or component	Clause 5.7	Visual Observation
		Accessibility of a part or component	Clause 5.7	Visual Observation
				Visual Observation
	Stability and Overload Requirements (Clause 4.15)	Stability test	Clause 5.12.2	Visual Observation
		Fore and aft stability test	Clause 5.12.4	Visual Observation
				Visual Observation
	Enclosures (Clause 4.16)	Overload test for ride-on toys and seats	Clause 5.12.5	Visual Observation
	Liquid-Filled Toys (Clause 4.24)	Stability test of stationary floor toys	Clause 5.12.6	Visual Observation
		Dimension, Closure test	Clause 5.13.1	Scale:0 to 1000 mm, LC: 0.1 mm
		Durability Test	Clause 5.13.2.2	Visual Observation
		Leakage of liquid-filled toys	Clause 5.19	Visual Observation

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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
	Mouth-Actuated Toys (Cause 4.25)	Small parts test	Clause 5.2	Visual Observation
		Torque test	Clause 5.24.5	Torque Gauge R: Upto 60 cNm
		Tension test	Clause 5.24.6.1	Push Pull Gauge: R: 0 to 500 N, LC: 0.1N
	Toys and Children Products	Durability Test	Clause 5.20	Visual Observation
		Flammability Tests	AS/NZS/ISO 8124-2:2009 EN 71-2:2011 , ISO 8124-2:2007	Stop Watch:0 to 99 min LC: 1/100sec

III. METAL & METAL PRODUCTS

1. Metal & Alloys	Resistance to Corrosion	ASTM B 117:2011, ASTM G 85(A1,A2)2011 ISO 9227:2012, ISO 22775- Method 2:2004	Visual Observation
	Rockwell Hardness Test 1. 'A' at 60 kg load 2. 'B' at 100 kg load 3. 'C' at 150 kg load	ASTM E 18:2012 IS 1586:2000	20 to 88 HRA/ 1 HRA 20 to 100 HRB/ 1 HRB 20 to 70 HRC/ 1 HRC
	Brinell Hardness Tester (62.5 to 3000 kg load)	IS 1500:2005	100 to 500 HBW/ 0.01HBW
	Vickers Hardness Test (1 to 50kgf load)	IS 1501:2002	100 to 900 HV/ 0.1 HV

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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
	Metal & Alloys	Micro Vickers Hardness Test (10g to 1000g)	ASTM E 384:2011 IS 1501:2002	100 to 1000 HV / 0.01 HV
		Tensile Strength	IS 1608:2005 ASTM E8/E8M:2011	1) UTM: 1 to 600 kN/ LC: 0.01 kN 2) UTM: 1 to 100 kN/ LC: 0.01 kN
		Yield Strength	IS 1608:2005 ASTM E8/E8M:2011	1) UTM: 1 to 600 kN/ LC: 0.01 kN 2) UTM: 1 to 100 kN/ LC: 0.01 kN
		% Elongation	IS 1608:2005 ASTM E8/E8M:2011	5 to 45%, 0.01 mm
		Bend Test	IS 1599:2012 IS 1786:2008	1 to 70 mm, Mandrel dia/ Visual
		Re-Bend Test	IS 1786:2008	1 to 70 mm, Mandrel dia/ Visual
		IGC (Susceptibility to inter granular corrosion)	ASTM A-262: 2010 - Practice B, C & E	Visual Observation
		Deformation and surface Characteristics Mass per Meter Run	IS 1786:2008	300 kg/100 gm

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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
	Metal & Alloys	Determination of average grain size	ASTM E 112:2012	Visual Observation
		Determination of Inclusion content of Steel	ASTM E 45:2011	Visual Observation
		Micro examination	JIS G 0553 (Page 1194-1198) and ASM Handbook Vol.9	Visual Observation
		Micro examination	Ref, ASM Handbook Volume 9	Visual Observation
		Erichsen Cupping Test	IS 10175:1993(Dc-1)	0.2 to 2 mm/ LC: 0.2 mm
		Izod Impact Test (at room temp.)	ASTM E 23:2012C IS 1598:1977	2 J to 168 J
		V-Notch Charpy Impact Test	ASTM E 23:2012C IS 1757:2009	2 J to 300 J
		Stone Chipping test	SAE J 400	Visual Observation
		CASS Test	ASTM B 368:2009	Visual Observation

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