

INTERNATIONAL TOY SAFETY REQUIREMENTS

Requirements	UK/EUROPE	INDIA
Physical & Mechanical Test	BS EN71 Part 1	IS 9873 Part 1
Flammability Test (Textile Material / Pile Fabric / Pile Materials)	BS EN71 Part 2	IS 9873 Part 2
Flammability Test (Solid Material / Toy Products)	BS EN71 Part 2	IS 9873 Part 2
Toxic Element Test	BS EN71 part 3	IS 9873 Part 3
Cleanliness of Stuffing Material	BS EN71 Part 1	IS 9873 Part 1
Phthalates	99/815/EC	---
Battery Operated Toy Safety Test	EN50088	IS 9873Part 1 Annex A
Electromagnetic Compatibility	89/336/EEC	C-Tick

TOYS ABUSE TEST CONDITIONS COMPARISON FOR INTERNATIONAL TOY SAFETY REQUIREMENTS

Country		UK/Europe	INDIA
Test	Age (Months)	EN71 Part 1	IS 9873 Part 1
Small Parts	0 to 36	Toy and parts shall not fit entirely within small part cylinder under its own weight before and after abuse tests	Toy and parts shall not fit entirely within small part cylinder under its own weight before and after abuse tests
Sharp Points & Sharp Edges	0 to 36	Must not include a hazardous point or edge before and after abuse tests	Must not include a hazardous point or edge before and after abuse tests
	>36 to 96	May contain functional point or edge if labeled (ages 3 yrs and up)	May contain functional point or edge if labeled (ages 3 yrs and up)
	>96 to 168	May contain functional point or edge if labeled (ages 3 yrs and up)	-----
Drop Test	0 to 18	850 mm (2.8 ft.), 5 drops	138 cm (4.53 ft.), 10 drops
	>18 to 36	850 mm (2.8 ft.), 5 drops	93 cm (3.1 ft.), 4 drops
	> 36 to 96	850 mm (2.8 ft.), 5 drops * up to 14 yrs	93 cm (3.1 ft.), 4 drops
Impact Test	0 to 168	1 kg mass from 100 mm	-----
Tip Over Test	0 to 96	3 times * up to 14 yrs	3 times * up to 14 yrs
Torque Test	0 to 18	0.34 N-m (3 in-lb)	0.45 N-m (4 in-lb)
	> 18 to 36	0.34 N-m (3 in-lb)	
	> 36 to 96	0.34 N-m (3 in-lb) * up to 14 yrs	
Tension Test	0 to 18	- Dimension ≤ 6 mm, 50 N (11.2 lb) - Dimension > 6 mm, 90 N (20.2 lb) - 70 N (15.7 lb) for seam of soft toy - 60 N (13.5 lb) for protective tip	70 N (15.7 lb)
	> 18 to 36	- Dimension ≤ 6 mm, 50 N (11.2 lb) - Dimension > 6 mm, 90 N (20.2 lb) - 70 N (15.7 lb) for seam of soft toy - 60 N (13.5 lb) for protective tip	70 N (15.7 lb)
	> 36 to 96	- Dimension ≤ 6 mm, 50 N (11.2 lb) - Dimension > 6 mm, 90 N (20.2 lb) - 60 N (13.5 lb) for protective tip * up to 14 yrs	70 N (15.7 lb)
Compression Test	0 to 18	110 N (24.7 lb)	114 N (25.6 lb)
	> 18 to 36	110 N (24.7 lb)	114 N (25.6 lb)
	> 36 to 96	110 N (24.7 lb) * up to 14 yrs	136 N (30.5 lb)
Flexure Test	0 to 18	Bend 30 cycles of 120° at a rate of 1 cycle / 2 sec., rest 60 secs. every 10 cycles, 70 N (15.7 lb) bending force.	Bend 30 cycles of 120° at a rate of 1 cycle / 2 sec., rest 60 secs. every 10 cycles, 70 N (15.7 lb) bending force.
	> 18 to 96	Bend 30 cycles of 120° at a rate of 1 cycle / 2 sec., rest 60 secs. every 10 cycles, 70 N (15.7 lb) bending force. * up to 14 yrs	Bend 30 cycles of 120° at a rate of 1 cycle / 2 sec., rest 60 secs. every 10 cycles, 70 N (15.7 lb) bending force.

* For specific items only.

TOYS HEAVY METALS REQUIREMENTS

Country	UK/EUROPE		INDIA	
Standards	EN71 Part 3		IS 9873 Part 3	
Toys Materials	TM 1,2,3 (a & b)	TM 4	TM 1,2,3 (a & b)	TM 4
Elements	mg/kg	mg/kg	mg/kg	mg/kg
Arsenic (As)	25 S	25 S	25 S	25 S
Mercury (Hg)	60 S	25 S	60 S	25 S
Selenium (Se)	500 S	500 S	500 S	500 S
Antimony (Sb)	60 S	60 S	60 S	60 S
Lead (Pb)	90 S	90 S	90 S	90 S
Cadmium (Cd)	75 S	50 S	75 S	50 S
Barium (Ba)	1000 S	250 S	1000 S	250 S
Chromium (Cr)	60 S	25 S	60 S	25 S

Notes:

T = Total Content
S = Soluble Content

mg/kg = ppm

TM =

1. Surface Coating
2. Polymeric material, paper, textiles, mass coloured materials and materials intended to leave a trace
- 3a. Glass / ceramic
- 3b. Metallic material
4. Modeling clay and finger paint

