

Seam & Attachment Strength Requirements of Different Countries for Toys Testing

Standard	Australia/New Zealand/China AS/NZS ISO 8124-1/ GB6675.2	Canada CCPSA. SOR/2011-17	Europe EN71 Part 1	Japan Toy Standard ST2016	USA ASTM F963
Tension Test on Seams	0-14 yrs: 70 N ± 2 N Test seam with clamps with 19 mm (0.75") discs attached to jaw tips	--	0-3 yrs: 70 ± 2 N Test seam with clamps with 19mm (0.75") washers attached to jaw tips. Determine if it is possible to insert the front part of Accessibility probe A under a force of 10 N or less.	0-14 yrs: 70 ± 2 N Test seam with clamps with 19mm (0.75") washers attached to jaw tips.	0-18 months: 10 ± 0.5 lbs 19-96 months: 15 ± 0.5 lbs Test seam with clamps with 0.75" (19mm) washers attached to jaw tips.
Seam Failure	The toy continues to conform to the relevant requirements.	The toy continues to conform to the relevant requirements.	It shall not be possible to insert freely the front part of probe A under a force of 10 N max through any opening in the seam or cover material. An opening may be accepted if it manifestly does not create a hazard. (Clause)5.2	It shall not be possible to insert the front part of probe A, through any one opening in the seam or cover material.	The toy continues to conform to the relevant requirements.
Grippable Attachments	Torque: 0.45 ± 0.02 N.m Tension: 70 ± 2 N	Rigid eyes or nose of 1 1/4" or less should not be gripped by a three-pronged claw hook (1/64 hook thickness) or when apply a force of 20 lb for 5 minutes, the eye or nose must not become detached	Grippable component determined by a feeler gauge of 0.4mm thickness and insertion edge of 3mm radius inserted more than 2 mm. < 36 mths: Torque 0.34 Nm Tension on component : ≤ 6mm: 50 ± 2 N > 6mm: 90 ± 2 N Paper board : 25± 2 N Tension on protective component: 60 ± 2 N	Torque: 0.45 ± 0.02N.m Tension: 70 ± 2 N	0-18 months: Torque: 2 ± 0.2 in-lb Tension: 10 ± 0.5 lbs 19-36 months: Torque: 3 ± 0.2 in-lb Tension: 15 ± 0.5 lbs 37-96 months: Torque: 4 ± 0.2 in-lb Tension: 15 ± 0.5 lbs