



Hong Kong Standards and Testing Centre

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Seam & Attachment Strength Requirements of Different Countries for Toys Testing

| Standard | USA ASTM F963 - 08 | USA 16 CFR 1500 | Europe EN71 Part 1 : 2005 | CANADA Hazardous Products Act | Australia/New Zealand AS/NZS ISO 8124-1 |
|-----------------------|--|--|--|---|---|
| Tension Test on Seams | 0-18 mths: 10 ± 0.5 lbs 19-96 mths: 15 ± 0.5 lbs Test seam with clamps with 0.75” (19mm) washers attached to jaw tips. (Section 8.9.1) | 0-18 mths: 10 ± 0.5 lbs 19-96 mths: 15 ± 0.5 lbs (* 1500.51 (f), 1500.52 (f), 1500.53 (f)) | 0-14 yrs: 70 ± 2 N (15.75 lb) Test seam with clamps with 19mm (0.75”) washers attached to jaw tips. (Section 8.4.2.2) | | 0-14 yrs: 70N ± 2N Test seam with clamps with 19mm (0.75”) discs attached to jaw tips (5.24.6.2) |
| 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. *5.2 | The toy continues to conform to the relevant requirements. | The toy continues to conform to the relevant requirements. |
| Grippable Attachments | 0-18 mths: Torque 2 ± 0.2 in-lb Tension 10 ± 0.5 lbs 19-36 mths: Torque 3 ± 0.2 in-lb Tension 15 ± 0.5 lbs 37-96 mths : Torque 4 ± 0.2 in-lb Tension 15 ± 0.5 lbs | 0-18 mths: Torque 2 ± 0.2 in-lb Tension 10 ± 0.5 lbs 19-36 mths: Torque 3 ± 0.2 in-lb Tension 15 ± 0.5 lbs 37-96 mths : Torque 4 ± 0.2 in-lb Tension 15 ± 0.5 lbs | Grippable component determined by a filler gauge of 0.4mm thickness and insertion edge of 3mm radius inserted more than 2 mm. < 36 mths: Torque 0.34 Nm ≤ 6mm: Tension 50 ± 2 N > 6mm: Tension 90 ± 2 N Protective component: 60 ± 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 tested per schedule III (20 lb. & 5 minutes), the eye or nose must not become detached [C.R.C.c. 931 (15)(a)(b)] (item 14c), Part II, Schedule I, HPA | Torque: 0.45±0.02N.m Tension: 70 ± 2 N |