

**AMENDMENT NO: 02 TO SLS 1335 : 2008
SRI LANKA STANDARD SPECIFICATION FOR POLYURETHANE FOAM
MATTRESSES AND CUSHIONS**

Amendment No. 02 Approved on 2010-10-15 to SLS 1335 : 2008

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2. REFERENCES

Delete the 5th reference.

4 REQUIREMENTS

TABLE 3 – Physical requirements for flexible polyurethane foam cushions and mattresses

Delete Sl. No. v), Column (2) and substitute “ Compression set, as change in thickness at 75 per cent compression, per cent, max.”

Delete Sl. No. v), Column (5) and substitute “ Appendix J”.

Delete SL. No.x).

Delete Appendix F.

Include Appendix J at the end of Appendix H as follows.

**“APPENDIX J
DETERMINATION OF COMPRESSION SET**

J.1 PRINCIPLE

This test consists of maintaining the test piece under specified conditions (time, temperature and constant compressive strain) and observing the effect on the thickness.

J.2 APPARATUS

A compression device, consisting of two steel plates larger in dimensions than the test piece, with spacers and clamps in such a way that the plates are held in parallel to each other and the space between the plates is adjustable to the required deflected height.

J.3 PROCEDURE

Cut a specimen of size 100 mm x 100 mm × whole thickness of the sample. (See Note). Condition the sample for 16 hours at a temperature of 27 ± 2 °C and 65 ± 5 per cent relative humidity. Measure the initial thickness of the test piece by using a vernier caliper. Place the test piece in the compression device and compress the test piece by 75 per cent of the original thickness. Place the apparatus in an air-circulated oven at 70 ± 2 °C within 15 minutes of compression and maintain at this temperature for 22 hours.

On the completion of the test, remove the test piece from the apparatus and allow to recover for 30 minutes at room temperature. Measure the thickness again.

NOTE: *To obtain satisfactory results, samples should not be tested before 72 hours after manufacture.*

J.4 CALCULATION

$$\text{Compression set, as change in thickness at 75 per cent compression, per cent} = \frac{T_1 - T_2}{T_1} \times 100$$

where,

T_1 is the original thickness, in millimetres; and
 T_2 is the thickness after recovery, in millimetres.”

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