
CAN/CGSB-4.2 No. 27.5 (45° Test) of "Crib Mattress Ticking"

A Report To: **Nature's Embrace Latex Ltd.**
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Attention:
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Submitted by:

Report No. Element Fire Testing

23-002-221
3 pages

Date: June 12, 2023

1.0 ACCREDITATION

ISO/IEC 17025 for a defined Scope of Testing by the American Association for Laboratory Accreditation (A2LA), Certificate Number: 6524.03.

2.0 SPECIFICATIONS OF ORDER

Determine flame resistance according with CAN/CGSB-4.2, No. 27.5-08 to determine compliance with The Textile Flammability Regulations, SOR/2016-194 of Canada Consumer Product Safety Act, as per Element Quotation No. 23-002-455390 dated May 29, 2023.

2.1 History of Report Revision

This is the original.

3.0 SAMPLE IDENTIFICATION (Element sample identification number 23-002-S0221)

Material described as, "350 GSM 100% Organic Cotton Fabric", and identified as:
"Crib Mattress Ticking"

4.0 SUMMARY OF TEST PROCEDURE

Specimens cut from the textile are prepared by brushing if they have a raised fibre surface, by dry cleaning and laundering if they have a flame-retarding finish, and by drying at 105°C for one hour, then cooled to room temperature in a desiccator for a period of 15 minutes to 2 hours. Dry specimens are then held in a specified apparatus at an angle of 45°, a standardized flame is applied to the surface near the lower end for one second, and the time required for flaming to proceed up the fabric a distance of 127 mm (5 inches) is recorded. Ignition or fusing of the base fibre of fabrics having a raised fibre surface is noted, if applicable.

Preliminary trials are made to determine the surface and fabric direction which burns most rapidly. Five specimens, each 51 x 152 mm (2 x 6 inches), are then cut with the long dimension corresponding to the direction of most rapid burning.

5.0 PERFORMANCE REQUIREMENTS

The Textile Flammability Regulations of Canada Consumer Product Safety Act (formerly the Hazardous Products Act, Part I, Prohibited and Restricted Products) establish Minimum Requirements for Flammability:

Measurements are made on a 127 mm (5 inch) distance in accordance with CAN/CGSB-4.2, No. 27.5-2008.

5.1 Minimum Requirements / Time of Flame Travel

	(a) Raised Fibre Surface	(b) No Raised Fibre Surface
CCPSA SOR/2016-194 (Textile products (apparel))	greater than 4 seconds, if exhibits ignition or fusion of base fibres	greater than 3.5 seconds
CCPSA SOR/2016-169 (Children's Sleepwear, polo pyjamas & sleepers)	greater than 7 seconds	greater than 7 seconds
CCPSA SOR/2016-194 (Textile products for use on beds or pillows)	greater than 7 seconds, if exhibits ignition or fusion of base fibres	greater than 7 seconds

6.0 SAMPLE PREPARATION

Specimens were received pre-cut to appropriate dimensions and quantity for testing.

7.0 TEST RESULTS

Canada Consumer Product Safety Act

Test Method: CAN/CGSB - 4.2, No. 27.5-2008

Flame Resistance - 45° Angle Test - One Second Flame Impingement

SAMPLE: "Crib Mattress Ticking"

Direction	Specimen	Raised Fibre?	Time for Flame to Travel 5 inches (s)	Surface Flash Severed Thread?	Result
Machine	1	No	-	No	Pass
Machine	2	No	-	No	Pass
Machine	3	No	-	No	Pass
Machine	4	No	-	No	Pass
Machine	5	No	-	No	Pass

7.1 Test Notes and Observations

Specimens did not ignite. Surface Tested: Face side. Fabric was tested "as-received".

7.2 Applicability

Bedding material was supplied. Therefore, as per SOR (Statutory Orders and Regulations)/2016-194, the minimum required Flame Travel time is 7 seconds, or no ignition.

8.0 CONCLUSIONS

When tested "as-received", in accordance with CAN/CGSB-4.2 No. 27.5, the material identified in this report complies with the Canada Consumer Product Safety Act in reference to Textile Flammability Regulations for Textile Products (bedding and apparel).



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Technician.



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