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PRODUCT EVALUATED: 100% Synthetic Carpet with 70% polyester/30%
Nylon with Flame Safe Fabric Safe
EVALUATION PROPERTY ASTM D2859

**Report of Testing 100% Synthetic Carpet with 70% polyester/30% Nylon
with Flame Safe Fabric Safe for compliance with the applicable
requirements of the following criteria: ASTM D2859-2016 Standard Test
Method for Ignition Characteristics of Finished Textile Floor Covering
Systems**

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FLAME SAFE

2 INTRODUCTION

Intertek has conducted testing for Flame Safe Wood Products, Inc. on 100% Synthetic Carpet with 70% polyester/30% Nylon with Flame Safe Fabric Safe to evaluate ignition characteristics. Testing was conducted in accordance with ASTM D2859-2016, following the Standard Test Method for Ignition Characteristics of Finished Textile Floor Covering Systems. This evaluation began October 3, 2017 and was completed October 4, 2017.

3 TEST SAMPLES

3.1. SAMPLE SELECTION

Samples were submitted to Intertek directly from the client. Samples were not independently selected for testing. Samples were received at the Evaluation Center on October 2, 2017 in good condition.

3.2. SAMPLE AND ASSEMBLY DESCRIPTION

Sample Name: 100% Synthetic Carpet with 70% polyester/30% Nylon with Flame Safe Fabric Safe

Sample Description: 100% synthetic carpet with 70% polyester/30% nylon with polypropylene backing fire retardant treated with Flame Safe Fabric Safe sprayed on at 200 square feet per gallon (coverage rate)

Samples were cut to approximately 9" x 9" by the client.

Samples are preconditioned at $70 \pm 2^\circ\text{F}$ and 65% till equilibrium is reached. This is followed by conditioning in an oven at $105 \pm 2^\circ\text{C}$ for 2 hours and then transferred to a desiccator for at least 1 hour to cool down prior to testing.

4 TESTING AND EVALUATION METHODS

After conditioning samples are removed from desiccator and placed in the test fixture with a steel plate on top. The methenamine tablet is placed flat in the center of the test area and lit. Sample is observed and allowed time for propagated flame to burn out or burn until flame or glowing reaches the edge of the hole in the steel frame. Test is terminated after either of the above conditions is reached.

A single specimen has passed the test if the charred portion of the tested specimen shall not extend to within 25.6 0.5 mm [1.0 in.] of the edge of the hole in the steel frame at any point.

The acceptance criterion of this standard requires that at least seven out of eight individual specimens have passed the test.

5 TESTING AND EVALUATION RESULTS

5.1. RESULTS AND OBSERVATIONS

Specimen	Specimen Dimensions (mm)	Initial Mass (g)	Mass after Oven (g)	% of Moisture
1	230 x 230	122.51	120.89	1.32
2	224 x 230	133.20	130.88	1.74
3	225 x 228	130.75	128.77	1.51
4	225 x 227	132.99	130.86	1.60
5	225 x 230	123.07	121.60	1.19
6	225 x 232	132.29	130.16	1.61
7	225 x 230	123.45	121.78	1.35
8	225 x 230	126.13	124.21	1.52
Average				1.48

Specimen	Did the sample have char within 25 ± 0.5mm of the edge of the hole in the flattening frame?	Distance between char and edge of frame (mm)
1	N	95
2	N	95
3	N	105
4	N	102
5	N	101
6	N	102
7	N	96
8	N	100

5.2. EXAMINATION OF RESULTS

Eight specimens of 100% Synthetic Carpet with 70% polyester/30% Nylon with Flame Safe Fabric Safe have met the criteria of ASTM D2859.

6 CONCLUSION

Intertek has conducted testing for Flame Safe Wood Products, Inc. on 100% Synthetic Carpet with 70% polyester/30% Nylon with Flame Safe Fabric Safe to evaluate ignition characteristics. Testing was conducted in accordance with ASTM D2859-2016, following the Standard Test Method for Ignition Characteristics of Finished Textile Floor Covering Systems.

100% Synthetic Carpet with 70% polyester/30% Nylon with Flame Safe Fabric Safe has met the criteria of ASTM D2859.

The conclusions of this test report may not be used as part of the requirements for Intertek product certification. Authority to Mark must be issued for a product to become certified.

INTERTEK

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REVISION SUMMARY

DATE	SUMMARY
October 4, 2017	Date of original report