



Roll Out Mats - Carpet, Vinyl, Foam Flammability Specifications

Flammability Test Results

CARPET

Flame Spread Index is defined in ASTM E 176 specification. Flame Spread Index = **45**
Smoke Developed Index is defined in ASTM E 84. Smoke Developed Index = **105**

The National Fire Protection Association (NFPA) 101 Safety Code classifies the carpet used in the carpet bonded product line to have a Class B Rating.

Rating is based on: Flame Spread – 26-75
 Smoke Developed Index – 0-450

ASTM D2859 Standard Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials or 16 CFR 1630 (DOC FF1-70) Standard for the Surface Flammability of Carpet and Rugs also known as the “Pill Test”.

CFR 1630 Pill Test Results is defined in ASTM D 2859 = **PASS**

Additionally, the carpet used in all carpet bonded products is approved by and meets or exceeds the **Consumer Product Safety Commission** (CPAC) federal flammability standard CPSC FF 1-70.

FOAM

The foam used in bonded products complies with Federal Motor Vehicle Safety Specification (FMVSS) 302 for fire retardancy.

VINYL

The vinyl used in THE sport mat/wrestling mat products comply with **Federal Motor Vehicle Safety Specification** (FMVSS) 302 for fire retardancy.

The manufacturer takes pride in manufacturing sports mats of the highest quality. The safe enjoyment of these products is of paramount importance. They have provided this statement in connection with questions about several ASTM standards that occur from time to time. We hope you find this helpful.

Roll Out Mats - Carpet, Vinyl, Foam Flammability Specifications – continued

ASTM E648

We have found that there can be some confusion as to whether ASTM E648 is applicable to our sports mats. Sometimes, we are asked whether our mats are ASTM E648 compliant. Section 1.2 of ASTM E648 reads:

1.2 This fire-test-response standard measures the critical radiant flux at flame-out. It provides a basis for estimating one aspect of fire exposure behavior for floor-covering systems. The imposed radiant flux simulates the thermal radiation levels likely to impinge on the floors of a building whose upper surfaces are heated by flames or hot gases, or both, from a fully developed fire in an adjacent room or compartment. ***The standard was developed to simulate an important fire exposure component of fires that develop in corridors or exit ways of buildings and is not intended for routine use in estimating flame spread behavior of floor covering in building areas other than corridors or exit ways.*** See Appendix X1 for information on proper application and interpretation of experimental results from use of this test.

Section 5.1 reiterates the purpose and intent of ASTM E648:

5. Significance and Use

5.1 This fire test response standard is designed to provide a basis for estimating one aspect of the fire exposure behavior of a floor-covering system installed in a building corridor. The test environment is intended to simulate conditions that have been observed and defined in full scale corridor experiments.

ASTM E84

Similarly, we also have found there can be some confusion as to whether ASTM E84 is applicable to our sports mats. The first section of the standard reads:

1. Scope**

1.1 This fire-test-response standard for the comparative surface burning behavior of building materials is applicable to exposed surfaces such as walls and ceilings. The test is conducted with the specimen in the ceiling position with the surface to be evaluated exposed face down to the ignition source. The material, product, or assembly shall be capable of being mounted in the test position during the test. Thus, the specimen shall either be self-supported by its own structural quality, held in place by added supports along the test surface, or secured from the back side.

*These sports mats are not intended for use as a floor-covering system in building corridors or exit ways.

**These sport mats are not intended for use on walls or ceilings. The manufacturer does provide a traditional plywood backed vinyl wall pad that is ASTM E-84 Class A and NFPA 28 compliant.

Greatmats.com
117 Industrial Ave
Milltown WI 54858
Toll free: 877-822-6622

Direct voice: 715-653-6100
Fax: 715-825-4928
info@greatmats.com
Revised 11/2025