

## Flammability (ASTM E84)

### 1. Test Standard

#### 1.1 Test Procedure

ASTM E84-17 "Standard Method of Test for Surface Burning Characteristics of Building Materials"

#### 1.2 Sample Preparation and Conditioning

Three pieces of 8 foot long panels measuring 24 feet long, 24 inches wide and 1/2 inch thickness were placed into fire chamber with  $23\pm 3^{\circ}\text{C}$  ( $73\pm 5^{\circ}\text{F}$ ) and  $50\pm 5\%$  relative humidity until day of testing. The sample was self-supporting with the face side exposed to the burner flames.

The Samples were butted end to end in the test chamber, with cement board place between the lid and sample.

#### 1.3 Flame Spread Classification

Flame Spread	Smoke Developed	Class (NFPA, IBC)
0 through 25	Less than or equal to 450	A
26 through 75	Less than or equal to 450	B
76 through 200	Less than or equal to 450	C

#### ※ Building Codes Cited

- NFPA: National Fire Protection Association "Life Safety Code" (ANSI/NFPA No. 101)
- IBC: International Building Code, Interior Finishes, Section 803

### 2. Test Result

**Flame Spread: 15**

**Smoke Development: 15**

**Classification: Class A**

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