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## SUMMARY OF TEST PROCEDURE

Upon ignition of the gas burners, the flame spread distance is observed and recorded every 15 seconds. Flame spread distance versus time is plotted ignoring any flame front recessions. If the area under the curve (A) is less than or equal to 97.5 min-ft, FSI = 0.515-A; if greater, FSI = 4900/(195-A). Smoke developed is determined by comparing the area under the obscuration curve for the test sample to that of inorganic reinforced cement board and red oak, arbitrarily established as 0 and 100, respectively.

### TEST RESULTS

SAMPLE	Porous Expanded Polypropylene (PEPP)	<u>FSI</u>	<u>SD</u>
		18	124

Core material

#### Observations of Burning Characteristics

- The core began to melt, ignite and propagate flame immediately upon exposure to the test flame. The core material located in the area of direct test flame impingement began to collapse to the floor of the test chamber where it continued to burn.
- The flame front advanced to a distance of 1.0 foot during the initial 15 seconds of the test and then briefly receded before propagating along the molten material on floor of the test chamber to a maximum distance of 4.5 feet at 3.25 minutes.
- Maximum amounts of smoke developed were recorded coinciding with maximum flaming involvement of the molten core material at approximately 2.5 minutes. Smoke production then began to decrease as the sample was consumed and burning activity subsided.

Authorities having jurisdiction usually refer to these categories:

	<u>Flame-Spread Index</u>	<u>Smoke Development</u>
Class 1 or A	0-25	450 Maximum
Class 2 or B	25 -75	450 Maximum
Class 3 or C	75 -200	450 Maximum