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Fire Retardant ARPAK® Expanded Polyethylene (FR-EPE)

Fire Retardant Properties for FR Grade ARPAK® Expanded Polyethylene (FR-EPE) Foam

Molded Density: 20 to 74 g/l (1.3 to 4.6 pcf)

Available Colors: White

Flammability Properties:

Test Method	Units	Densities Tested	Results
Federal Motor Vehicle Safety Standard (FMVSS) 302	< 4.0 in/min.	20 g/l to 74 g/l (1.3 pcf to 4.6 pcf)	Pass
ASTM-E162	Flame Spread Index[1]	30 g/l to 45 g/l (1.9 pcf to 2.8 pcf)	Class B (II) Rating
ASTM-E662	Smoke Optical Density[1,2] (Ds)	30 g/l to 45 g/l (1.9 pcf to 2.8 pcf)	@ 1.5 min = 2.3 @ 4.0 min = 16.4
ASTM-E84	Flame Spread Index[1]	24 g/l to 30 g/l (1.5 pcf to 1.9 pcf)	Class A (I) Rating Index = 10 (1.5 pcf) Index = 10 (1.9 pcf)
ASTM-E84	Smoke Development Index[1]	24 g/l to 30 g/l (1.5 pcf to 1.9 pcf)	Class A Rating Index = 250 (1.5 pcf) Index = 300 (1.9 pcf)
UL-94	Flame Class[3,4,5]	30 g/l to 74 g/l (1.9 pcf to 4.6 pcf)	V-0 HF-1
CAL-117	Section A Part I and III	30 g/l to 45 g/l (1.9 pcf to 2.8 pcf)	Pass
FAR 25.853(a) [Appendix F, Part 25]	Burn Rate[6]	30 g/l to 45 g/l (1.9 pcf to 2.8 pcf)	Pass

Note[1]: Testing performed on ARPAK FR-EPE at 1" thick.
NFPA (National Fire Protection Association) rating based on test results.
Note[2]: Non-Flaming Mode
Note[3]: Flame Class Equivalent for ARPAK FR-EPE (Results vary with density).
Note[4]: Tested at ½" thick.
Note[5]: Vertical Test Result = V-0 (superior to V-1 and V-2). Horizontal Test Result = HF1 (superior to HF-2 and HB/HBF).
Note[6]: 60 Second Vertical Burn

pcf = pounds per cubic foot
g/l = grams per liter

Additional Physical Property Information available upon request.

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