

Fire Retardant Properties for FR Grade ARPRO® Expanded Polypropylene (FR-EPP)

Molded Density Range: 30 to 100 g/l (1.9 to 6.2 pcf)

Available Colors: Black (50XXFR Series) and Charcoal/Grey (34XXCHFR[†] Series)

Flammability Properties:

Test Method	Units	Results
Federal Motor Vehicle Safety Standard (FMVSS) 302	< 4.0 in/min ¹	Pass
ASTM-E84	Flame Spread Index ²	Class A Rating (per NFPA)
ASTM-E84	Smoke Development Index ²	Class A Rating (per NFPA)
ASTM-E162	Flame Spread Index (Fs)	Class A (I) Rating ² Fs = 10.87 Class B (II) Rating ³ Fs = 56.64
ASTM-E662	Smoke Optical Density(Ds) ^{2,3}	@ 1.5 min = 2.0 to 2.8 @ 4.0 min = 14.5 to 20.3
ASTM-D635 (as referenced in ANSI Z87.1)	Burn Rate	Pass ³
UL-94	Flame Class	V0 ^{4a} HB/HBF ⁵ / HF-1 ^{4b}
FAR 25.853(a) [Appendix F, Part 25]	Burn Rate	Pass ³
CAL-117	Max. % Weight Loss	Pass

Note¹: Both EPP (Standard Grade [non-FR]; density >20 g/l) and FR-EPP (all densities) meet FMVSS-302.

Note²: Testing performed on ARPRO FR-EPP at >45 g/l molded density at 25 mm thick.
 NFPA (National Fire Protection Association) rating based on test results.

Note³: Testing performed on ARPRO FR-EPP at >30 g/l molded density at 25 mm thick.

Note⁴: Testing performed on ARPRO FR-EPP at 30 to 100 g/l (3.5 to 12.5 mm thick per Std.)

Note⁵: >80 g/l Black EPP Standard Grades [non-FR] are capable of meeting burn rate (HB/HBF).

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

Additional Physical Properties Available Upon Request

JSP ARPRO
34XXCHFR[†]
 Series is UL
 Recognized

