

Material Physical Properties for Static Dissipative Material

ARPRO[®] Static Dissipative Expanded Polypropylene (DI-EPP); 1.9 pcf (30 g/l)

Physical Properties [†]	Test Method	Units	JSP ARPRO [®] Static Dissipative EPP (DI-EPP)
Density (Grade)	ASTM D3575	pcf	1.9
Density	ASTM D3575	g/l	30
Compressive Strength @10%	ASTM D3575	psi	18
Compressive Strength @25%		psi	24
Compressive Strength @50%		psi	34
Compressive Strength @75%		psi	64
Tensile Strength	ASTM D3575	psi	56
Tensile Elongation	ASTM D3575	%	15
Tear Strength	ASTM D3575	lbs/in	13
Compressive Set @ 25%	ASTM D3575	%	7
Compressive Set @ 50%	ASTM D3575	%	12
Buoyancy	ASTM D3575	lbs/ft ³	59.5
Thermal Conductivity (K)	ASTM C177	BTU-in/ft ² -hr-°F	0.26
Thermal Resistance (R)	ASTM C177	@ 70°F	3.8
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F x 10 ⁻⁵	5.7
Service Temperature	ASTM D3575	°F (Max.)	212
Water Absorption	ASTM D3575 / ASTM C272	%	< 1%
Surface Resistivity	ANSI/EIA 541 / Mil-PRF-81705	ohms/square	<10 ⁹ (10 ⁵ to 10 ⁹)
Static Decay	ANSI/EIA 541 / Mil-PRF-81705	Seconds (1kV to 100V; @+/-5kV)	<0.1
Compressive Creep	ASTM D3575	1000hr, % (psi)	1.2 (2.0)
Flammability	FMVSS 302	<4.0 in/min	Pass
Chemical Resistance	Various	1 hr exposure (solvents, acids, and alkalines)	Pass
Fuel Immersion	Coast Guard; Fuel B per 33 CFR §183.114	<5% (change in volume/buoyancy)	Pass

[†]Note: Typical values shown.