

## Material Physical Properties for Static Dissipative Material

### ARPRO<sup>®</sup> Static Dissipative Expanded Polypropylene (DI-EPP); 2.8 pcf (45 g/l)

Physical Properties <sup>†</sup>	Test Method	Units	JSP ARPRO <sup>®</sup> Static Dissipative EPP (DI-EPP)
Density (Grade)	ASTM D3575	pcf	2.8
Density	ASTM D3575	g/l	45
Compressive Strength @10%	ASTM D3575	psi	32
Compressive Strength @25%		psi	42
Compressive Strength @50%		psi	54
Compressive Strength @75%		psi	111
Tensile Strength	ASTM D3575	psi	67
Tensile Elongation	ASTM D3575	%	16
Tear Strength	ASTM D3575	lbs/in	16
Compressive Set @ 25%	ASTM D3575	%	7
Compressive Set @ 50%	ASTM D3575	%	12
Buoyancy	ASTM D3575	lbs/ft <sup>3</sup>	59
Thermal Conductivity (K)	ASTM C177	BTU-in/ft <sup>2</sup> -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 <sup>-5</sup>	5.4
Service Temperature	ASTM D3575	°F (Max.)	212
Water Absorption	ASTM D3575 / ASTM C272	% (vol)/lb/ft <sup>2</sup>	<5.0/<0.02
Surface Resistivity	ANSI/EIA 541 / Mil-PRF-81705	ohms/square	<10 <sup>9</sup> (10 <sup>5</sup> to 10 <sup>9</sup> )
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

<sup>†</sup>Note: Typical values shown.