



Material Physical Properties for Static Dissipative Material ARPRO[®] Static Dissipative Expanded Polypropylene (DI-EPP); 2.8 pcf (45 g/l)

Physical Properties [†]	Test Method	Units	JSP ARPRO [®] 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 ³	59
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	5.4
Service Temperature	ASTM D3575	°F (Max.)	212
Water Absorption	ASTM D3575 / ASTM C272	% (vol)/lb/ft ²	<5.0/<0.02
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.

ARPRO® is a registered trademark of JSP Licenses, LLC. PUBLICATION JSP ARPRO-StaticDissipative-EPP-1.9pcf-GenPropInfo-2013/01

The information contained herein is based upon the results of limited laboratory tests on test samples of material molded from expanded polyolefin resin manufactured by JSP. There can be no assurance that the similar results will be achieved in simulated tests or actual use of commercial product molded by customers of JSP. Product performance may vary substantially depending upon the particular application or processing involved. The listed properties are illustrative only and not the product specifications. All suggestions and recommendations are made without warranty since the conditions of user are beyond JSP's control. Processing and applications of JSP from products can influence molded part performance in many ways. Consequently, processors and/or users are advised that there may be a need to conduct independent tests and experiments in order for them to determine the extent to which they may choose to rely upon such information in their business oper-ations. JSP disclams any liability in connection with the use of the information and does not warrant against infringement by reasons of the use of its products in combination with other material or in any process.

