

1.3 - 3.7# Expanded Polypropylene (EPP)

TECHNICAL DATA SHEET | BUNS (EFFECTIVE 24FEB25)

Expanded Polypropylene (EPP)						
PHYSICAL PROPERTY	TEST METHOD	UNIT	JSP ARPRO® EPP			
Cell Structure	–	–	Closed			
Density (Grade)	ASTM D3575	pcf	1.3	1.9	2.8	3.7
Density	ASTM D3575	g/l	20	30	45	60
Compressive Strength @ 10%	ASTM D3575	psi	9	15	29	40
Compressive Strength @ 25%		psi	12	19	35	52
Compressive Strength @ 50%		psi	21	29	48	70
Compressive Strength @ 75%		psi	42	60	105	147
Tensile Strength	ASTM D3575	psi	37	54	68	85
Tensile Elongation	ASTM D3575	%	29	26	21	18
Tear Strength	ASTM D3575	lbf/in	13	15	20	23
Compressive Set @ 25%	ASTM D3575	%	11	9	9	8
Compressive Set @ 50%	ASTM D3575	%	21	20	19	18
Buoyancy	ASTM D3575	lbs/ft ³	61	60	59	57
Thermal Conductivity	ASTM C177	(K)BTU-in/ ft ² -hr-°F	0.25	0.24	0.26	0.26
Thermal Resistance	ASTM C177	(R) @ 70°F	4.0	4.1	3.8	3.8
Coeff. of Lin. Thermal Expansion	ASTM D696	in/in/°F x 10 ⁻⁵	6.0	5.7	5.4	4.8
Service Temperature	ASTM D3575	°F (Max.)	212			
Water Absorption	ASTM D3575/C272	% (vol) / lb/ft ²	< 5.0 / < 0.02			
Compressive Creep	ASTM D3575	1000hr, % (psi)	2.0 (1.5)	1.2 (2.0)	1.5 (3.0)	1.5 (6.0)
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% (chg in vol)	Pass			