

## Material Physical Properties for Ultra Low Density Polypropylene Foam Molded from ARPRO<sup>®</sup> Expanded Polypropylene Beads

PHYSICAL PROPERTY	TEST METHOD	UNITS	ARPRO EPP
Density	ASTM-D3575	pcf (g/l)	1.0 (16.0)
Compressive Strength	ASTM-D3575		
@25% Strain		psi	11.2
@50% Strain		psi	19.1
@75% Strain		psi	41.3
Compressive Set	ASTM-D3575	25% (50%)	7.8 (16.0)
Tensile Strength	ASTM-D3575	psi	35.3
Tensile Elongation	ASTM-D3575	%	18.0
Tear Strength	ASTM-D3575	lb <sub>f</sub> /in	9.2
Buoyancy	ASTM-D3575	pcf	61.2
Compressive Creep	ASTM-D3575 1000 hrs @ 1 psi	%	2.5
Thermal Conductivity	ASTM-C177	(K) BTU-in/ft <sup>2</sup> -hr-°F	0.24
Thermal Resistance	ASTM-C177	(R)	4.1
Flammability	FMVSS-302	< 4.0 in/min.	Pass
Chemical Resistance (Auto fuels, fluids, solvents)	Various	1 hr exposure	Pass
Fuel Immersion	Coast Guard Fuel B per 33 CFR §183.114	< 5% Chg. In Vol.	Pass

Note: Typical values shown. Data based on 3400 and 5400 Series ARPRO EPP.  
pcf = pounds/cubic foot, g/l = grams per liter