

## Material Physical Properties for Ultra Low Density Polyethylene Packaging Grade Foam Molded from ARPAK<sup>®</sup> Expanded Polyethylene (EPE) Beads

PHYSICAL PROPERTY	TEST METHOD	UNITS	TYPICAL VALUES
Density	ASTM-D3575	pcf (g/l)	1.0 (16)
Compressive Strength @25% Strain @50% Strain @75% Strain	ASTM-D3575	psi psi psi	7.8 15.8 37.6
Compressive Set	ASTM-D3575	25% (50%)	2.9 (11.5)
Tensile Strength	ASTM-D3575	psi	39.0
Tensile Elongation	ASTM-D3575	%	38.0
Tear Strength	ASTM-D3575	lbs/in	12.2
Buoyancy	ASTM-D3575	pcf	61.2
Water Absorption*	ASTM-D3575	%	~1.0
Compressive Creep	ASTM-D3575 1000 hrs @ 1 psi	%	2.5
Thermal Conductivity	ASTM-C177	(K) BTU-in/ft <sup>2</sup> -hr-°F	0.26
Thermal Resistance	ASTM-C177	(R)	3.9
Flammability	FMVSS-302	< 4.0 in/min.	Pass
Chemical Resistance (Auto fuels, fluids, solvents)	Various	1 hr exposure	Pass
Fuel Immersion	Coast Guard (CGD-77-145) Fuel B	< 5% Chg. In Vol.	Pass

Note: Typical values shown.

pcf = pounds/cubic foot, g/l = grams per liter

\*Note: Based on molded EPE Part. (<1.0% for individual EPE foam beads)