

**Material Physical Properties  
for Low Density Polyethylene Packaging Grade Foam  
Molded from ARPAK<sup>®</sup> Expanded Polyethylene Beads**

PHYSICAL PROPERTY	TEST METHOD	UNITS	ARPAK <sup>®</sup> 4315	ARPAK <sup>®</sup> 4320
Density	ASTM-D3575	pcf (g/l)	1.5 (24)	2.2 (35)
Compressive Strength	ASTM-D3575			
@25% Strain		psi	9.7	15.6
@50% Strain		psi	18.7	24.7
@75% Strain		psi	49.0	64.0
Compressive Set	ASTM-D3575	%	5.1	5.8
Tensile Strength	ASTM-D3575	psi	46.7	53.3
Tensile Elongation	ASTM-D3575	%	30.0	28.1
Tear Strength	ASTM-D3575	lbs/in	15.2	18.2
Buoyancy	ASTM-D3575	pcf	62.5	58.9
Compressive Creep	ASTM-D3575 1000 hrs @ 1 psi	%	2.3	3.9
Thermal Conductivity	ASTM-C177	(K) BTU-in/ft <sup>2</sup> -hr-°F	0.22	0.24
Thermal Resistance	ASTM-C177	(R)	4.5	4.2
Flammability	FMVSS-302	< 4.0 in/min.	Pass	Pass
Chemical Resistance (Auto fuels, fluids, solvents)	Various	1 hr exposure	Pass	Pass

Note: Typical values shown.

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