

## Material Physical Properties for Low Density Polypropylene Packaging Grade Foam Molded from ARPRO<sup>®</sup> Expanded Polypropylene (EPP) Beads

PHYSICAL PROPERTY	TEST METHOD	UNITS	ARPRO <sup>®</sup> Values	ARPRO <sup>®</sup> Values
Density	ASTM-D3575	g/l (pcf)	20.8 (1.3)	24.0 (1.5)
Compressive Strength	ASTM-D3575	MPa	0.08	0.10
@25% Strain		MPa	0.15	0.19
@50% Strain		MPa	0.30	0.37
@75% Strain				
Compressive Set	ASTM-D3575	%	12.3	11.7
Tensile Strength	ASTM-D3575	MPa	0.31	0.34
Tensile Elongation	ASTM-D3575	%	22.0	20.0
Tear Strength	ASTM-D3575	N/mm	1.65	1.75
Buoyancy	ASTM-D3575	g/l	994	975
Compressive Creep	ASTM-D3575 1000 hrs @ 1 psi	%	2.2	1.9
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. Data based on 3400 and 5400 series ARPRO EPP.

1 MPa = 1 N/mm<sup>2</sup> = 145.04 psi (Units of pressure/stress), pcf = pounds/cubic foot, g/l = grams per liter