

**Material Physical Properties
for Foam (density range from 106 g/l to 225 g/l)
Molded from ARPRO® Expanded Polypropylene (EPP) Beads**

PHYSICAL PROPERTY	TEST METHOD	UNITS	TEST RESULTS					
			106	120	150	180	200	225
Density	ASTM-D3575	grams/liter	106	120	150	180	200	225
Compressive Strength	ASTM-D3575	MPa						
@25% Strain			0.87	1.02	1.50	1.95	2.05	2.80
@50% Strain			1.20	1.45	2.18	3.00	3.30	3.90
@75% Strain			2.90	3.70	5.80	8.25	9.90	13.60
Compression Set	ASTM-D3575	%	10	10	11	11	12	12
Tensile Strength	ASTM-D3575	MPa	1.05	1.21	1.37	1.42	1.46	1.51
Tensile Elongation	ASTM-D3575	%	12	11	11	10	10	9
Tear Strength	ASTM-D3575	KN/m	4.86	5.15	5.77	6.36	6.80	7.33
Flexural Modulus	ASTM-D790	MPa	1.4	1.58	1.9	2.4	2.65	2.95
Flexural Modulus		MPa	41.0	58.0	73.0	87.0	96.0	109.0
Coefficient of Linear Thermal Expansion	ASTM-D696	mm/mm/°C x 10 ⁻⁵						
20°C to -40°C			3.6	3.4	3.2	2.9	2.6	2.2
20°C to 80°C			6.8	5.6	4.7	3.7	3.2	2.9
Water Absorption	ASTM-C272	gms/cc x 10 ⁻³	3.1	2.7	2.3	1.9	1.7	1.3
Flammability	FMVSS 302	< 100 mm/min.	Pass	Pass	Pass	Pass	Pass	Pass
Chemical Resistance (Auto fuels, fluids, solvents)	Various	1 hr exposure	Pass	Pass	Pass	Pass	Pass	Pass

Note: Data for JSP International ARPRO® White Material (7000 Series) and Black Material (5000 Series).
Typical Values Shown.