

## Material Physical Properties for Foam (density range from 20 g/l to 90 g/l) Molded from ARPRO® Expanded Polypropylene (EPP) Beads

PHYSICAL PROPERTY	TEST METHOD	UNITS	TEST RESULTS						
Density	ASTM-D3575	pcf (lb/ft <sup>3</sup> )	1.3	1.9	2.8	3.7	4.2	5.1	5.6
Compressive Strength @25% Strain @50% Strain @75% Strain	ASTM-D3575	psi (lb/ft <sup>2</sup> )	15 23 45	23 33 64	41 54 110	57 73 155	65 86 183	87 116 258	100 135 302
Compression Set	ASTM-D3575	%	10	10	11	11	12	12	12
Tensile Strength	ASTM-D3575	psi (lb/ft <sup>2</sup> )	38	55	67	90	103	126	141
Tensile Elongation	ASTM-D3575	%	15	15	14	14	13	13	12
Tear Strength	ASTM-D3575	lbf/in	10	12	16	19	20	23	25
Flexural Strength	ASTM-D790	psi (lb/ft <sup>2</sup> )	30	55	78	104	125	157	168
Flexural Modulus	ASTM-D790	psi (lb/ft <sup>2</sup> )	1,421	1,682	2,103	2,756	3,220	4,192	4,511
Coefficient of Linear Thermal Expansion 20°C to -40°C 20°C to 80°C	ASTM-D696	in/in/°F x 10 <sup>-5</sup>	3.8 6.0	3.3 5.7	3.1 5.4	2.4 4.8	2.3 4.4	2.2 4.2	2.1 3.8
Water Absorption	ASTM-C272	%	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Flammability	FMVSS 302	< 4.0 inches/min.	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Chemical Resistance (Auto fuels, fluids & solvents)	Various	1 hr exposure	Pass	Pass	Pass	Pass	Pass	Pass	Pass

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