

**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							
			20	30	45	60	67	82	90	
Density	ASTM-D3575	grams/liter								
Compressive Strength @25% Strain	ASTM-D3575	MPa	0.10	0.16	0.28	0.39	0.45	0.60	0.69	
			0.16	0.23	0.37	0.50	0.59	0.80	0.93	
			0.31	0.44	0.76	1.07	1.26	1.78	2.08	
Compression Set	ASTM-D3575	%	14	12	12	11	11	10	10	
Tensile Strength	ASTM-D3575	MPa	0.26	0.38	0.46	0.62	0.71	0.87	0.97	
Tensile Elongation	ASTM-D3575	%	15	15	14	14	13	13	12	
Tear Strength	ASTM-D3575	KN/m	1.74	2.13	2.73	3.25	3.51	4.07	4.35	
Flexural Strength	ASTM-D790	MPa	.21	.38	.54	.72	.86	1.08	1.16	
Flexural Modulus		MPa	9.8	11.6	14.5	19.0	22.2	28.9	31.1	
Coefficient of Linear Thermal Expansion 20°C to -40°C	ASTM-D696	mm/mm/°C x 10 ⁻⁵	6.8	5.9	5.5	4.3	4.1	3.9	3.7	
20°C to 80°C			10.8	10.2	9.8	8.7	7.9	7.5	6.8	
Water Absorption	ASTM-C272	gms/cc x 10 ⁻³	10.4	8.1	6.2	5.1	4.5	4.2	3.5	
Flammability	FMVSS 302	< 100 mm/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 International ARPRO® White Material (7000 Series) and Black Material (5000 Series).
Typical Values Shown.