



Material Physical Properties
Density Range from 106 g/l to 225 g/l
Molded from ARPRO® Expanded Polypropylene (EPP)

PHYSICAL PROPERTY	TEST METHOD	UNITS	TEST RESULTS						
			106	112	120	150	180	200	225
Density	ASTM-D3575	grams/liter	106	112	120	150	180	200	225
Compressive Strength	ASTM-D3575	MPa							
@25% Strain			0.87	0.94	1.05	1.50	1.95	2.25	2.54
@50% Strain			1.20	1.32	1.48	2.12	2.75	3.17	3.70
@75% Strain			2.95	3.30	3.80	5.80	8.25	9.88	12.3
Compression Set	ASTM-D3575	%	10	10	10	11	11	12	12
Tensile Strength	ASTM-D3575	MPa	1.05	1.12	1.21	1.37	1.42	1.46	1.51
Tensile Elongation	ASTM-D3575	%	12	11	11	11	10	10	9
Tear Strength	ASTM-D3575	KN/m	4.86	4.98	5.15	5.77	6.36	6.80	7.33
Flexural Strength	ASTM-D790	MPa	1.40	1.49	1.58	1.90	2.40	2.65	2.95
Flexural Modulus	ASTM-D790	MPa	41.0	49.0	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	3.5	3.4	3.2	2.9	2.6	2.2
20°C to 80°C			6.8	6.2	5.6	4.7	3.7	3.2	2.9
Water Absorption	ASTM-C272	gms/cc x 10 ⁻³	3.1	2.9	2.7	2.3	1.9	1.7	1.3
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 ARPRO® White (30XX/72XX Series) and Black (50XX/54XX Series) Standard Grade Materials
Typical values shown and should not be construed as specification limits.

