

PROPERTIES	ASTM or UL Test	RIGID	FLEXIBLE	FOAM
Physical Properties				
Specific Gravity	ASTM D 792	1.30 - 1.58	1.20 - 1.70	0.45 - 0.8
Specific Gravity in 3/lb	ASTM D 792	19.1 - 20.5	-	
Water Absorption 24h, 1/8-in thk	ASTM D 570	0.04 - 0.4	0.15 - 0.75	0.03 - 0.04
Mechanical Properties				
Tensile Strength (psi)	ASTM D 638	6,000 - 8000	1,500-3,500	2000 - 3000
Elongation (%)	ASTM D 638	50 - 150	200-450	
Tensile Modulus (10 ⁵ psi)	ASTM D 638	3.5 - 10	-	1 - 2.4
Flexural Modulus (10 ⁵ psi)	ASTM D 790	3-8	-	
Impact Strength, IZOD (ft-lb/in of notch)	ASTM D 256	0.4-20.0	-	0.4 - 0.6
Hardness, Rockwell M	ASTM D 785	D65-85	A50 - 100	4-9
Charpy Impact Unnotched	ASTM D 256			0.4 -0.6
Thermal Properties				
Thermal Conductivity (10 ⁻⁴ cal-cm/sec cm ² -°C)	ASTM C 177	3.5 - 5.0	3.0 - 4.0	0.05 - 3
Coefficient of Thermal Expansion (10 ⁻⁵ in/- °F)	ASTM D 696	1.2 - 5.6	3.9 - 13.9	3 - 4.5
Deflection Temperature (°F) At 264 psi 140-170 At 66 psi 135-180	ASTM D 648			145 - 150
Max Service Temperature Long Term (°F)		122 - 176		
Electrical Properties				
Dielectric Strength (V/mil) Short time, 1/8-in thk	ASTM D 149	350 - 500	300 - 400	
Dielectric Constant At kHz 3.0-3.8	ASTM D 150	4.0 - 8.0		
Volume Resistancy (ohm-cm) At 73 °F, 50% RH	ASTM D 257	>10 ¹⁶	10 ¹¹ - 10 ¹⁵	
Arc Resistance (s)	ASTM D 495	60 - 80		

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