

METRIC

PROPERTY	ASTM or UL TEST	RIGID	FLEXIBLE	FOAM
PHYSICAL				
SPECIFIC GRAVITY	D792	1.30-1.58	1.20-1.70	0.45-0.8
SPECIFIC VOLUME in ³ /lb (cm ³ /g)	D792	19.1-20.5 (528-567)	-	
WATER ABSORPTION, 24h, 1/8-in thk (%)	D570	0.04-0.4	0.15-0.75	0.03-0.04
MECHANICAL				
TENSILE STRENGTH PSI (MPa)	D638	6,000-8,000 (41-55)	1,500-3,500 (10-24)	2000-3000 (13-21)
ELONGATION (%)	D638	50-150	200-450	
TENSILE MODULUS PSI (MPa)	D638	350000-1000000 (2410-6800)	-	100000-240000 (690-1655)
FLEXURAL MODULUS PSI (MPa)	D790	300000-800000 (2068-5517)	-	
IMPACT STRENGTH, Izod ft-lb/in OF NOTCH (J/m of notch)	D256	0.4-20.0 (21-1080)	-	4-9 (216-486)
HARDNESS, ROCKWELL M	D785	D65-85	A50-100	4-9
CHARPY IMPACT UNNOTCHED	D256			0.4-0.6
THERMAL				
THERMAL CONDUCTIVITY 10-4 cal-cm/sec-cm ² -°C (10-4 BTU in/hr-ft ² -°F)	C177	3.5-5.0 (1.02-1.5)	3.0-4.0 (0.9-1.2)	0.05-3 (0.01-0.9)
COEFFICIENT OF THERMAL EXPANSION 10-5 in/in-°F (10-5 m/m/°C)	D696	1.2-5.6 (2.1-10)	3.9-13.9 (7-25)	3-4.5 (5.4-8.1)
DEFLECTION TEMPERATURE (°F)	D648			
AT 264 psi 140-170		-		
AT 66 psi 135-180		-		145-150
ELECTRICAL				
DIELECTRIC STRENGTH V/mil (KV/mm)	D149			
SHORT TIME, 1/8-in thk		350-500 (13.8-19.8)	300-400 (11.9-15.8)	
DIELECTRIC CONSTANT	D150			
AT kHz 3.0-3.8		4.0-8.0		
DISSIPATION FACTOR	D150			
AT 1 KHz 0.009		0.07		
-0.017		-0.16		
VOLUME RESISTANCY (ohm-cm)	D257			
AT 73°F, 50% RH		> 1016	1011-1015	
ARC RESISTANCE (s)	D495	60-80	-	

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