

PROPERTY	ASTM or UL TEST	RIGID	FLEXIBLE	FOAM
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PHYSICAL				
SPECIFIC GRAVITY	D792	1.30-1.58	1.20-1.70	0.45-0.8
SPECIFIC VOLUME (in ³ /lb)	D792	19.1-20.5	-	
WATER ABSORPTION, 24h, 1/8-in thk (%)	D570	0.04-0.4	0.15-0.75	0.03-0.04

MECHANICAL				
TENSILE STRENGTH (psi)	D638	6,000-8,000	1,500-3,500	2000-3000
ELONGATION (%)	D638	50-150	200-450	
TENSILE MODULUS (105 psi)	D638	3.5-10	-	1-2.4
FLEXURAL MODULUS (105 psi)	D790	3-8	-	
IMPACT STRENGTH, IZOD (ft-lb/in of notch)	D256	0.4-20.0	-	4-9
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)	C177	3.5-5.0	3.0-4.0	0.05-3
COEFFICIENT OF THERMAL EXPANSION (10 ⁻⁵ in/in-°F)	D696	1.2-5.6	3.9-13.9	3-4.5
DEFLECTION TEMPERATURE (°F)	D648			
AT 264 psi 140-170		-		
AT 66 psi 135-180		-		145-150
NORMAL TEMPERATURE RANGE °F (°C)			Max 160 (70) Min -22 (-30)	

ELECTRICAL				
DIELECTRIC STRENGTH (V/mil)	D149			
SHORT TIME, 1/8-in thk		350-500	300-400	
DIELECTRIC CONSTANT	D150			
AT kHz 3.0-3.8		4.0-8.0		
VOLUME RESISTANCY (ohm-cm)	D257			
AT 73°F, 50% RH		>10 ¹⁶	10 ¹¹ -10 ¹⁵	
ARC RESISTANCE (s)	D495	60-80	-	

We cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products, whether alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product or product combination for their own purposes. Unless otherwise agreed in writing, we sell the products without warranty, and buyers and users assume all responsibility and liability for loss or damage arising from the handling and use of our products, whether used alone or in combination with other products. For most recent technical information, phone in USA or in Canada.

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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