

METRIC

PROPERTY	ASTM OR UL TEST	GENERAL PURPOSE	HIGH FLEX MODULUS	20% GLASS REINFORCED
PHYSICAL				
SPECIFIC GRAVITY	D792	1.2	1.25	1.35
SPECIFIC GRAVITY in3/lb (cm3/g)	D792	23 (636)	22.2 (614)	20.5 (567)
WATER ABSORPTION, 24 h, 1/8-in thk (%)	D570	0.15	0.12	0.16
MECHANICAL				
TENSILE STRENGTH psi (MPa)	D638	9,000-10,500 (62-72)	8,000-9,600 (55-66)	16,000 (110)
ELONGATION (%)	D638	110-125	10-20	4-6
TENSILE MODULAS psi (MPa)	D638	340,000 (2345)	450,000 (3100)	860,000 (5900)
FLEXURAL SRENGTH psi (MPa)	D790	11,000-15,000 (76-103)	15,000 (103)	19,000 (131)
FLEXURAL MODULUS psi (MPa)	D790	300,000-340,000 (2070-2345)	500,000 (3450)	800,000 (5517)
IMPACT STRENGTH, IZOD ft-lb/in OF NOTCH (J/m of notch)	D256	12-16 (648-864)	2 (108)	2 (108)
FATIGUE ENDURANCE LIMIT, 107 CYCLES psi (MPa)	D671	1,000 (6.9)	2,000 (13.8)	5,000 (34.5)
HARDNESS, ROCKWELL M	D785	62-70	85	91

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.

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THERMAL				
THERMAL CONDUCTIVITY Btu-in/hr-ft ² -°F (w/m-K)	C177	1.35 (0.19)	1.41 (0.21)	1.47 (0.22)
COEFFICIENT OF THERMAL EXPANSION (105 in/in-°C)	D696	6.6-7.0	3.2	2.7
DEFLECTION TEMPERATURE °F (°C)	D648			
AT 264 PSI		260-270 (127-132)	288 (142)	295 (146)
AT 66 PSI		280 (138)	295 (146)	300 (149)
FLAMMABILITY RATING		HB-V0	V-2, V-0	V-2, V-0
ELECTRICAL				
DIELECTRIC STRENGTH SHORT TIME, (1/8-in thk) V/mil (KV/mm)	D149	380-400 (15-16)	450 (17.8)	490 (19.4)
DIELECTRIC CONSTANT	D150			
AT 1 kHz		3.02	-	-
DISSIPATION FACTOR	D150			
AT 1 kHz		0.0021	-	-
VOLUME RESISTIVITY (ohm-cm) AT 73F, 50% RH	D257	> 1016	> 1016	> 1016
ARC RESISTANCE (s), 120 mils	D495	10-120	5-120	5-120
OPTICAL				
REFRACTIVE INDEX	D542	1.586	-	-
TRANSMITTANCE (%)	D1003	85-89	-	-
FRICTIONAL				
COEFFICIENT OF FRICTION	-			
SELF		0.52	-	-
AGAINST STEEL		0.39	-	-

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