

PROPERTY	ASTM or UL TEST	UNREINFORCED	GLASS REINFORCED		30% CARBON REINFORCED
			20%	30%	
PHYSICAL					
SPECIFIC GRAVITY	D792	1.32	1.43	1.49	1.44
SPECIFIC VOLUME (in ³ /lb)	D792	21.0	19.3	18.6	-
WATER ABSORPTION, 24h, 1/8-in thk (%)	D570	0.1	-	0.11	0.06
MECHANICAL					
TENSILE STRENGTH	D638	14,000 - 16,000	17,800	14,000	19,000
ELONGATION (%)	D638	40	2.5	2.2	5
TENSILE MODULUS (Gpg, ksi)	D638	4.34, 500-630		6.89, 1000	7.58, 1100
FLEXURAL STRENGTH (psi)	D790	24,700	27,800	23,000	25,750
FLEXURAL MODULUS	D790	5.3	9.7	10	12.5
IMPACT STRENGTH, IZOD (ft-lb/in of notch)	D256	1.6	1.6	0.8	1.03
COMPRESSIVE STRENGTH	D695	17,100 - 20,000		22,000	29,000
COMPRESSIVE MODULUS (Gpa, ksi)	D695	3.45, 500		3.79, 550	
HARDNESS	D785/D2240	85D, 99-100M		89D, 103M	93D, 102M
COEFFICIENT OF FRICTION	vs. steel	0.4			0.2
THERMAL					
THERMAL CONDUCTIVITY (BTU-m/ft ² -hr-°F)	F433	1.75	-	2.98	6.4
COEFFICIENT OF LINEAR THERMAL EXPANSION (10 ⁻⁵ in/in-°C)	D696				
<150°C		4.7	2.4	2.2	1.5
>150°C		10.8	-	-	-
DEFLECTION TEMPERATURE (°F)	D648				
AT 264 PSI		320	545	450	518
FLAMMABILITY RATING, 1/8 in	UL 94	V-0	V-0	V-0	V-0
MAX TEMPERATURE (°F)		480 - 482		480	482
ELECTRICAL					
DIELECTRIC CONSTANT	D150				
AT 1 KHz		3.3	-	-	-
DISSIPATION FACTOR	D150				
AT 1 KHz		0.003	-	-	-
VOLUME RESISTANCY (ohm-cm)	D257				
AT 73°F, 50% RH		4.9 x 10 ¹⁶	-	-	1.4 x 10 ⁵
DIELECTRIC STRENGTH (KV/mm, V/mil)	D149	18.9, 480		19.7, 500	1.26, 32

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