

PROPERTY	TEST METHOD		VALUE	
	ISO	ASTM	SI	ENGLISH

PHYSICAL				
SPECIFIC GRAVITY	1183	D792	1.4-1.6	1.4-1.6
WATER ABSORPTION, 24h, 1/8-in thk (%)			0.17-0.35	0.17-0.35

MECHANICAL				
TENSILE STRENGTH	527	D638	68-162MPa	10-23 kpsi
ELONGATION AT BREAK (%)	527	D638	3-15	3-15
TENSILE MODULUS	527	D638	3-17	0.4-2.5 Mpsi
FLEXURAL MODULUS	-	D790	4-17	0.6-2.5 Mpsi
COMPRESSIVE MODULUS	604	D695	3-7	0.4-1.0 Mpsi
NOTCHED IZOD IMPACT	180/1A	D256	27-133	0.5-2.5 ft-lb/in ²
HARDNESS, ROCKWELL	2039-2	D785, 2240	E66-E94, D90, M106-125	E66-R94, D90, M106-125
COEFFICIENT OF FRICTION DYNAMIC	-	-	0.2-0.35	0.2-0.35
FLEXURAL STRENGTH		D790	138-207 Mpa	20,000-30,000 psi
COMPRESSIVE STRENGTH		D695	110-276 Mpa	16,000-40,000 ksi

THERMAL				
COEFFICIENT OF LINEAR THERMAL EXPANSION x 10 ⁻⁵	-	E831 (TMA)	1.4-3.6 mm/mm-°C	0.8-2.0 in/in-°F
HEAT DEFLECTION TEMPERATURE	75	D648		
AT 1.8 Mpa (264 psi)	-	D3418	271-282°C	520-540°F
GLASS TRANSITION TEMPERATURE	-	-	275°C	527°F
CONTINUOUS SERVICE TEMPERATURE IN AIR	-	UL 94	260°C	500°F
FLAMMABILITY	IEC 243	D149		
AT 3.1mm (0.125") ESTIMATED	IEC 93	D257	V-0	V-0
THERMAL CONDUCTIVITY		F433	0.259-0.533 W/m-k	1.8-3.7 BTU-in/ft ² -hr-°F

ELECTRICAL				
DIELECTRIC STRENGTH	IEC 250	D150	conductive - 30 kV/mm	conductive : 750 V/mil
VOLUME RESISTANCY	IEC 250	D150	conductive - 2x10 ¹⁷ ohm-cm	conductive : 8x10 ¹⁶ ohm-in
DIELECTRIC CONSTANT	62	D570		
AT 1 MHz			conductive - 4.2-6.0	conductive - 4.2-6.0
DISSIPATION FACTOR				
AT 1 MHz			conductive - 0.026-0.071	conductive - 0.026-0.071

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