

PROPERTIES	TEST METHOD	UNIT	GUIDELINE VALUE
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General Properties

Density	ASTM D792	g/cm ³	1.41
Water Absorption 24 Hours	ASTM D570	%	0.2
Dissipation Factor	ASTM D150	1MHz	0.004
Water Absorption Saturation	ASTM D570	%	0.9

Mechanical Properties

Hardness	ASTM D2240	Shore D	85
Tensile Strength at Yield 73°F	ASTM D638	psi	9500
Tensile Modulus	ASTM D638	psi	400000
Elongation at Break	ASTM D638	%	40
Flexural Strength	ASTM D790	psi	12000
Flexural Modulus	ASTM D790	psi	400000
Compressive Strength	ASTM D695	psi	15000
Rockwell Hardness	ASTM D785	M	88
Rockwell Hardness	ASTM D785	R	120
Shear Strength	ASTM D732	psi	8000
Izod Impact, Notched	ASTM D256	ft-lb/in	1.2
Coefficient of Friction (Dynamic)			0.21

Thermal Properties

Thermal Conductivity		in/hr/ft ² /°F	1.6
Coefficient of Linear Thermal Expansion	ASTM D696	in/hr/ft ² /°F x 10 ⁻⁵	5.5
Melting Point		°F	330
Continuous Service Temperature, Air		°F	180
Deflection Temperature at 1.8Mpa (264psi)	ASTM D648	°F	225
Deflection Temperature at 1.8Mpa (66psi)	ASTM D648	°F	320
Flammability, UL94		1/8 inch	HB

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Electrical Properties

Dielectric constant	ASTM D150	1 MHZ	3.8
Dielectric strength	ASTM D149	V/mil	450
Surface resistivity	ASTM D257	Ω/cm	10^{16}

Compliance Properties

FDA			Yes
NSF			No
USDA			Yes

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