



** TORLON® is the registered trademark of

QUADRANT

PRODUCT CAPABILITIES:

- Rod : 1.5" - 15"
- Sheet : 3/8" - 1.5"

ADVANTAGES:

- High Service Temperature In Air (260°C Continuously)
- High Mechanical Strength, Stiffness And Creep Resistance
- Dimensionally Stable
- Low Flammability
- Good Electrical Insulating And Dielectric Properties
- Excellent Resistance Against High Energy Radiation

PRODUCT COLORS:

- Khaki Grey

APPLICATIONS INCLUDE:

- Structural Application Supporting Static Loads For Long Periods Of Time At High Temperature

GENERAL PROPERTIES	ASTM or UL Test	TORLON® 5530 Typical Values
PHYSICAL		
Specific Gravity (g/cm ³)	D792	1.61
Water Absorption, 24 hrs (%)	D570	0.3
MECHANICAL		
Tensile Strength (psi)	D638	15,000
Tensile Modulus (psi)	D638	900,000
Tensile Elongation at Break (%)	D638	3
Flexural Strength (psi)	D790	20,000
Flexural Modulus (psi)	D790	900,000
Compressive Strength (psi)	D695	27,000
Compressive Modulus (psi)	D695	600,000
Hardness, Rockwell	D785	E85 / M125
IZOD Notched Impact (ft-lb/in)	D256	0.7
THERMAL		
Coeff. of Thermal Expansion (x 10 ⁻⁵ in./in./°F)	E831	2.6
Heat Deflection Temp (°F / °C) @ 264 psi	D648	520 / 271
Glass Transition Temp (°F / °C)	D3418	527 / 275
Max Operating Temp (°F / °C)	-	500 / 260
Thermal Conductivity (BTU-in/ft ² -hr-°F)	F433	2.5
Flammability Rating @	UL94	V-0
ELECTRICAL		
Dielectric Strength (V/mil) Short time	D149	700
Dielectric Constant at 1 MHz	D150	6.3
Dissipation Factor at 1 MHz	D150	0.05
Surface Resistivity (ohm/sq) at 50% RH	EOS/ESD S11.11	> 10 ¹³

NOTE: The information contained here in is typical values intended for reference only. They should NOT be used as a basis for design specifications or quality control.