



### PRODUCT CAPABILITIES:

- Rod: 1/4" - 1"
- Sheet: 1/8" - 1"

### 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:

- Dark Brown

### APPLICATIONS INCLUDE:

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

GENERAL PROPERTIES	ASTM or UL Test	TORLON® 5030 Typical Values	TORLON® 5060 Typical Values
<b>PHYSICAL</b>			
Specific Gravity (g/cm <sup>3</sup> )	D792	1.60	1.90
Water Absorption, 24hrs (%)	D570	0.3	0.20
<b>MECHANICAL</b>			
Tensile Strength (psi)	D638	23,000	28,000
Tensile Modulus (psi)	D638	1,000,000	2,000,000
Tensile Elongation at Break (%)	D638	4	2%
Flexural Strength (psi)	D790	30,000	36,000
Flexural Modulus (psi)	D790	980,000	2,000,000
Compressive Strength (psi)	D695	40,000	50,000
Compressive Modulus (psi)	D695	700,000	800,000
Hardness, Rockwell	D785	E90/M125	E90/M128
IZOD Notched Impact (ft-lb/in)	D256	1.0	2.0
<b>THERMAL</b>			
Coeff. of Thermal Expansion (x 10 <sup>-6</sup> in./in./°F)	E831	9	7
Heat Deflection Temp (°F / °C) @ 264 psi	TMA	532 / 278	532 / 278
Glass Transition Temp (°F / °C)	D3418	-	-
Max Operating Temp (°F / °C)	-	-	-
Thermal Conductivity (BTU-in/ft <sup>2</sup> -hr-°F)	C177	-	-
Flammability Rating	UL94	-	-
<b>ELECTRICAL</b>			
Dielectric Strength (V/mil) short time, 1/8" thick	D149	-	-
Dielectric Constant at 1 MHz	D150	-	-
Dissipation Factor at 1 MHz	D150	-	-
Surface Resistivity (ohm/sq) at 50% RH	D257	-	-

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.