



\*\* TORLON® is the registered trademark of

**mitsubishi chemical  
advanced materials**

### PRODUCT CAPABILITIES:

- Rod : 1/8" - 2"
- Sheet : 1/4" - 1"

### ADVANTAGES:

- High Stiffness/Strength
- Wide Operating Range (-190°C To + 260°C)
- Dimensional Stability
- Excellent Chemical Resistance
- Excellent Creep Resistance
- Good Radiation Resistance
- Super Electrical / Dielectric Performance

### PRODUCT COLORS:

- Yellow-Ochre

### APPLICATIONS INCLUDE:

- Connectors
- Switches
- Relays
- Thrust Washers
- Valve Seats
- Piston Rings
- Mechanical Linkages
- Bushings
- Electrical and Thermal Insulators

GENERAL PROPERTIES	ASTM or UL Test	TORLON® 4203 Typical Values
<b>PHYSICAL</b>		
Specific Gravity (g/cm <sup>3</sup> )	D792	1.41
Water Absorption, 24 hrs (%)	D570	0.4
<b>MECHANICAL</b>		
Tensile Strength (psi)	D638	20,000
Tensile Modulus (psi)	D638	600,000
Tensile Elongation at Break (%)	D638	10
Flexural Strength (psi)	D790	24,000
Flexural Modulus (psi)	D790	600,000
Compressive Strength (psi)	D695	24,000
Hardness, Rockwell	D785	E80
IZOD Notched Impact (ft-lb/in)	D256	2
<b>THERMAL</b>		
Coeff. of Thermal Expansion (x 10 <sup>-5</sup> in./in./°F)	E831	1.7
Heat Deflection Temp (°F / °C) @ 264 psi	D648	532 / 278
Glass Transition Temp (°F / °C)	D3418	527 / 275
Max Operating Temp (°F / °C)	-	500 / 260
Thermal Conductivity (BTU-in/ft <sup>2</sup> -hr-°F)	F433	1.8
Flammability Rating	UL94	V-O
<b>ELECTRICAL</b>		
Dielectric Strength (V/mil) short time, 1/8" thick	D149	580
Dielectric Constant at 1 MHz	D150	4.2
Dissipation Factor at 1 MHz	D150	0.026
Surface Resistivity (ohm-sq)	ANSI / ESD STM 11.11	> 10 <sup>13</sup>
Volume Resistivity (ohm.cm)	IEC 60093	> 10 <sup>14</sup>

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.