



### PRODUCT CAPABILITIES:

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

### PRODUCT COLORS:

- Yellow-Ochre

### ADVANTAGES:

- High Performance Melt Processable Polyamide-Imide That Maintains Its Excellent Mechanical And Wear Properties In Temperature Environments Exceeding 500°F.
- High Strength Structural Grade Featuring Good Electrical Properties and Strength, Making It ideal For Demanding Applications At A Broad Range Of Temperatures.

### APPLICATIONS INCLUDE:

- Pump Parts
- Valves Seats
- Priston Rings
- Seal Rings
- Engine Transmission Parts.
- Bearing Cages

GENERAL PROPERTIES	ASTM or UL Test	TI® 5013 Typical Values
<b>PHYSICAL</b>		
Specific Gravity (g/cm <sup>3</sup> )	D792	1.41
Water Absorption, 24 hrs (%)	D570	0.3
<b>MECHANICAL</b>		
Tensile Strength (psi)	D638	21,000
Tensile Elongation at Break (%)	D638	15
Flexural Strength (psi)	D790	33,000
Flexural Modulus (psi)	D790	711,000
Compressive Strength (psi)	D695	30,000
IZOD Notched Impact (ft-lb/in)	D256	2.3
Hardness, Rockwell	D785	M119
<b>THERMAL</b>		
Coeff. of Linear Thermal Expansion(x 10 <sup>-5</sup> in./in./°F)	E831	1.
Heat Deflection Temp (°F / °C) @ 264 psi	D648	532 / 278
Max Operating Temp (°F / °C)	-	500 / 260
Flammability Rating @ .075	UL94	V-O
<b>ELECTRICAL</b>		
Dielectric Strength (V/mil) short time, 1/8" thick	D149	600
Dielectric Constant at 10GHz	D150	3.9
Dielectric Constant at 20GHz	D150	3.2
Dielectric Constant at 30GHz	D150	3.7
Dissipation Factor at 10GHz	D150	0.009
Dissipation Factor at 20GHz	D150	0.009
Dissipation Factor at 30GHz	D150	0.009
Surface Resistivity (ohms)	D257	5X 10 <sup>16</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.