

**DATA SHEET**

**TORLON 4203**

**Extruded Unfilled Polyamide-imide**

PROPERTY	UNITS	VALUE
<b>MECHANICAL</b>		
Specific Gravity	-	1.41
Tensile Strength	psi	18,000
Tensile Modulus	psi	600,000
Elongation (at break)	%	5.0
Flexural Strength	psi	24,000
Flexural Modulus	psi	600,000
Compressive Strength	psi	24,000
Hardness, Rockwell	-	M120
Coefficient of Friction (Dry vs. Steel)	-	.35
Limiting PV (with 4:1 safety factor)	psi x fpm	12,500
<b>THERMAL</b>		
Coefficient of Linear Thermal Expansion	in/in/F	$1.70 \times 10^{-5}$
Heat Deflection Temperature (264 psi)	F	532
Glass Transition Temperature	F	527
Continuous Service Temperature	F	500
Thermal Conductivity	BTU/in/hr.ft.F	1.80
<b>ELECTRICAL</b>		
Dielectric Strength	volts/mil	580
Volume Resistivity	ohm-cm	$>10^{16}$
<b>OTHER</b>		
Water Absorption, Immersion, 24 hrs.	% by wt.	.4
Water Absorption, Immersion, Saturation	% by wt.	1.7

**ENGINEERING NOTES:**

- \* Neat resin
- \* High Purity
- \* Excellent Creep Resistance
- \* Good Chemical Resistance