

DATA SHEET

TORLON 7130

Extruded Polyamide-imide with 30% Carbon Fiber Fill

PROPERTY	UNITS	VALUE
MECHANICAL		
Specific Gravity	-	1.48
Tensile Strength	psi	29,400
Tensile Modulus	psi	3,220,000
Elongation (at break)	%	6.0
Flexural Strength	psi	50,700
Flexural Modulus	psi	2,880,000
Compressive Strength	psi	36,900
Hardness, Rockwell	-	E94
Coefficient of Friction (Dry vs. Steel)	-	--
Limiting PV (with 4:1 safety factor)	psi x fpm	35,000
THERMAL		
Coefficient of Linear Thermal Expansion	in/in/F	0.5×10^{-5}
Heat Deflection Temperature (264 psi)	F	540
Glass Transition Temperature	F	532
Continuous Service Temperature	F	500
Thermal Conductivity	BTU/in/hr.ft.F	3.60
ELECTRICAL		
Dielectric Strength	volts/mil	840
Volume Resistivity	ohm-cm	$<10^5$
OTHER		
Water Absorption, Immersion, 24 hrs.	% by wt.	.26
Water Absorption, Immersion, Saturation	% by wt.	1.5

ENGINEERING NOTES:

- * Excellent bearing performance at high speeds
- * Excellent creep resistance
- * Good chemical resistance