

DATA SHEET

MD NYLON (Extruded)

Molybdenum Disulphide Filled Type 6/6 Nylon (Polyamide)

PROPERTY	UNITS	VALUE
MECHANICAL		
Specific Gravity	-	1.16
Tensile Strength	Psi	12,500
Tensile Modulus	Psi	480,000
Elongation (at break)	%	25
Flexural Strength	Psi	17,000
Flexural Modulus	Psi	460,000
Compressive Strength	Psi	16,000
Hardness, Rockwell	-	R115
Coefficient of Friction (Dry vs. Steel)	-	.20
Limiting PV (with 4:1 safety factor)	psi x fpm	3,000
THERMAL		
Coefficient of Linear Thermal Expansion	in/in/F	4.00 x 10 ⁻⁵
Heat Deflection Temperature (264 psi)	F	200
Glass Transition Temperature	F	145
Continuous Service Temperature	F	220
Thermal Conductivity	BTU/in/hr.ft.F	--
ELECTRICAL		
Dielectric Strength	volts/mil	350
Volume Resistivity	ohm-cm	>10 ¹³
OTHER		
Water Absorption, Immersion, 24 hrs.	% by wt.	.3
Water Absorption, Immersion, Saturation	% by wt.	7.0

ENGINEERING NOTES:

- * Very high toughness
- * Very good wear resistance
- * Excellent abrasion resistance (SSI - 54)
- * Good chemical resistance