

DATA SHEET

PA 6/6 NATURAL

Unfilled Type 6/6 Extruded Nylon (Polyamide)

PROPERTY	UNITS	VALUE
MECHANICAL		
Specific Gravity	-	1.15
Tensile Strength	psi	11,800
Tensile Modulus	psi	425,000
Elongation (at break)	%	50
Flexural Strength	psi	14,500
Flexural Modulus	psi	400,000
Compressive Strength	psi	12,500
Hardness, Rockwell	-	R115
Coefficient of Friction (Dry vs. Steel)	-	.25
Limiting PV (with 4:1 safety factor)	psi x fpm	2,700
THERMAL		
Coefficient of Linear Thermal Expansion	in/in/F	5.50×10^{-5}
Heat Deflection Temperature (264 psi)	F	200
Glass Transition Temperature	F	145
Continuous Service Temperature	F	210
Thermal Conductivity	BTU/in/hr.ft.F	1.7
ELECTRICAL		
Dielectric Strength	volts/mil	400
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:

- * FDA, USDA, 3-A DAIRY compliant
- * Wear resistance is much better when dry
- * Excellent abrasion resistance (SSI - 44)
- * Heat stabilized version, MC901, has CUT of 260
- * Good chemical resistance