

**Raw Material** Nylon (PA612)

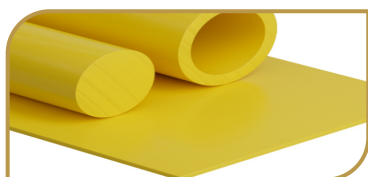
General Properties	Test Method	Unit	Value
Density	ISO 1183:1987	g/cm <sup>3</sup>	1.140
Moisture Absorption (Equilibrium)	ISO 62:1999	%	1.8
Water Absorption (24 Hours)	ISO 62:1999(modified)	%	0.15
Food Compliance	-	FDA/BfR	NO
UV Stability	-	-	-
Mechanical Properties			
Tensile Strength	ISO 527-1/2:1993	MPa	74-78
Elongation at Break	ISO 527-1/2:1993	%	>40
Elastic Modulus	ISO 527-1/2:1993	MPa	3400-3700
Compressive Strength	ISO 604:2002	MPa	95-120
Izod Imoact Strength	ISO 180:2000	KJ/m <sup>2</sup>	6.0-7.0
Wear Rate	-	mg/km	0.11
Hardness (Shore D)	ISO 868:2003	Scale D	80
Coefficient Of Friction (Dynamic)	-	-	0.188
Thermal Properties			
Melting Temperature	ISO 3146	°C	216
Thermal Conductivity	ISO 8301:1991	W/m°C	0.26
Deformation at temperature HDT	ISO 75	°C	75
Coefficient Of Linear Thermal Expansion	ISO 11359-2:1999	°C <sup>-1</sup>	8 x 10 <sup>-5</sup>
Service Temperature, Long Term	Average	°C	100
Service Temperature, Short Term (MAX)	Average	°C	160
Minimum Operating Temperature	Average	°C	-40
Flammability	UL 94 (3-6mm thickness)	-	HB
Electrical Properties			
Dielectric Constant	IEC 60250-1969-01	-	3.7
Dissipation Factor (100 Hz)	IEC 60250:1969-01	Hz	0.04
Volume Resistivity	IEC 60093:1980-01	Ωm	>1 x 10 <sup>13</sup>
Dielectric Strength	IEC 60243-1:1998-01	KV/mm	30
Surface Resistivity ROA	IEC 60093:1980-01	Ω	>1 x 10 <sup>12</sup>

**Applications:**

- Crane Sheaves
- Carriage Wheels
- Outrigger Pads
- Heavy Load Bearings

**Characteristics:**

- Excellent Mechanical Strength
- High Chemical Resistance
- Excellent Wear Resistance
- Very good Sliding Properties



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