

Raw Material Nylon (PA6)

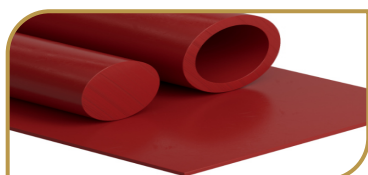
General Properties	Test Method	Unit	Value
Density	ISO 1183:1987	g/cm ³	1.141
Water Absorption in air 50% r.h.	ISO 62:1999	%	2
Absorption 23-C In Water-Saturation	ISO 62:1999	%	5.3
Food Compliance	-	FDA/BfR	YES
UV Stability	-	-	YES
Mechanical Properties			
Tensile Strength	ISO 527-1/2:1993	MPa	80-90
Elongation at Break	ISO 527-1/2:1993	%	>30
Elastic Modulus	ISO 527-1/2:1993	MPa	3600-4000
Compressive Strength	ISO 604:2002	MPa	105-125
Izod Imoact Strength	ISO 180:2000	KJ/m ²	5.5-7
Wear Rate	-	mg/km	0.02
Hardness (Shore D)	ISO 868:2003	Scale D	83
Coefficient Of Friction (Dynamic)	-	-	0.075
Thermal Properties			
Melting Temperature	ISO 3146	°C	222
Thermal Conductivity	ISO 22007.2	W/km	0.3
Deformation at temperature HDT	ISO 75	°C	70
Coefficient Of Linear Thermal Expansion	ISO 11359-2:1999	°C ⁻¹	8 x 10 ⁻⁵
Service Temperature, Long Term	Average	°C	100
Service Temperature, Short Term (MAX)	Average	°C	160
Minimum Operating Temperature	Average	°C	-20
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	0.013
Volume Resistivity	IEC 60093:1980-01	Ωm	>1 x 10 ¹³
Dielectric Strength	IEC 60243-1:1998-01	KV/mm	30
Surface Resistivity ROA	IEC 60093:1980-01	Ω	>1 x 10 ¹²

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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