

LAMIGAMID® 710

High Molecular Weight Polyethylene

Schwartz Technical Plastic

Message:

Applications:

Chain-Guides

Cutting Plates

Liners

General Information			
Features	High molecular weight		
	High density		
Uses	Lining		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	0.955	g/cm ³	ISO 1183
Water Absorption			ISO 62
23°C, 24 hr	0.0	%	ISO 62
Saturated, 23°C	> 0.10	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	36.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1000	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	24.0	MPa	ISO 527-2
Fracture	31.0	MPa	ISO 527-2
Tensile Strain (Break)	> 800	%	ISO 527-2
Flexural Modulus	900	MPa	ISO 178
Coefficient of Friction			ASTM D1894
With steel-dynamic	0.020 - 0.080		ASTM D1894
With steel-static	0.29		ASTM D1894
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	18	kJ/m ²	ISO 180
Unnotched Izod Impact Strength	No Break		ISO 180
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	130	°C	ISO 3146
CLTE - Flow (20 to 100°C)	2.0E-4	cm/cm/°C	ISO 11359-2
Specific Heat	2300	J/kg/°C	ASTM C351
Thermal Conductivity	0.14	W/m/K	ISO 8302
Electrical	Nominal Value	Unit	Test Method

Dielectric Strength	50	kV/mm	IEC 60243-1
Dielectric Constant	3.30		IEC 60250
Dissipation Factor	2.0E-4		IEC 60250

Additional Information

Creep Rate Stress, DIN 53444, 1% Elongation: 2.8 N/mm² Creep Rate Stress, DIN 53444, 2% Elongation: 4.5 N/mm² Friction Wear: 1.0 μm/Km Coef of Friction, ASTM D1894, vs. Steel-Dynamic: 0.02 to 0.08 Penetration Resistance, DIN 53482: 1E16 ohm-cm Creepage/leakage Resistance: KA3b Thermal Expansion: 0.1 %/10°C Safe Temperature Range, short periods: 120°C Safe Temperature Range, permanent: -100° to 80°C

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