

LAMIGAMID® 600

Acetal (POM) Copolymer

Schwartz Technical Plastic

Message:

Applications:

Friction Bearings

Wear and sliding liners

General Information			
Uses	Abrasion Resistant Liners		
	Bearing		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	1.43	g/cm ³	ISO 1183
Water Absorption			ISO 62
23°C, 24 hr	0.25	%	ISO 62
Saturated, 23°C	0.60	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	135	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3500	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	68.0	MPa	ISO 527-2
Fracture	117	MPa	ISO 527-2
Tensile Strain (Break)	60	%	ISO 527-2
Flexural Modulus	3000	MPa	ISO 178
Compressive Stress			ISO 604
20% strain	103	MPa	ISO 604
10% strain	83.0	MPa	ISO 604
5% strain	50.0	MPa	ISO 604
Coefficient of Friction			ASTM D1894
With steel-dynamic	0.020 - 0.080		ASTM D1894
With steel-static	0.32		ASTM D1894
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	9.0	kJ/m ²	ISO 180
Unnotched Izod Impact Strength	> 90	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	160	°C	ISO 75-2/B
1.8 MPa, not annealed	115	°C	ISO 75-2/A

Melting Temperature (DSC)	167	°C	ISO 3146
CLTE - Flow (20 to 100°C)	1.0E-4	cm/cm/°C	ISO 11359-2
Specific Heat	1460	J/kg/°C	ASTM C351
Thermal Conductivity	0.27	W/m/K	ISO 8302
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Dielectric Strength	70	kV/mm	IEC 60243-1
Dielectric Constant	3.70		IEC 60250
Dissipation Factor	3.5E-3		IEC 60250

Additional Information

Creep Rate Stress, DIN 53444, 1% Elongation: 13 N/mm² Creep Rate Stress, DIN 53444, 2% Elongation: 22 N/mm² Friction Wear: 0.90 μm/Km Coef of Friction, ASTM D1894, vs. Steel-Dynamic: 0.02 to 0.08 Penetration Resistance, DIN 53482: 1E15 ohm-cm Creepage/leakage Resistance: KA3b Safe Temperature Range, short periods: 140°C Safe Temperature Range, permanent: -40° to 100°C

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