

LAMIGAMID® 200

Polyamide 66
Schwartz Technical Plastic

Message:

Applications:
bearing bushes
machine parts
gears
liners

General Information				
Uses		Lining Bushing Gear Bearing		
Forms		Particle		
Processing Method		Extrusion		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.15	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
23°C, 24 hr	2.5 - 3.0	--	%	ISO 62
Saturated, 23°C	7.5 - 9.0	--	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	170	100	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3300	2000	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	90.0	60.0	MPa	ISO 527-2
Fracture	135	60.0	MPa	ISO 527-2
Tensile Strain (Break)	> 40	> 150	%	ISO 527-2
Flexural Modulus	2900	2000	MPa	ISO 178
Coefficient of Friction				ASTM D1894
With steel-dynamic	0.020	0.080		ASTM D1894
With steel-static	0.35	0.42		ASTM D1894
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact	> 3.0	> 15	kJ/m ²	ISO 180
Unnotched Izod Impact Strength	No Break	No Break		ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				

0.45 MPa, not annealed	200	--	°C	ISO 75-2/B
1.8 MPa, not annealed	105	--	°C	ISO 75-2/A
Melting Temperature (DSC)	255	--	°C	ISO 3146
CLTE - Flow (20 to 100°C)	7.0E-5 - 1.0E-4	--	cm/cm/°C	ISO 11359-2
Specific Heat	1670	--	J/kg/°C	ASTM C351
Thermal Conductivity	0.20	--	W/m/K	ISO 8302
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+12	1.0E+10	ohms	IEC 60093
Dielectric Strength	50	40	kV/mm	IEC 60243-1
Dielectric Constant	3.60	5.00		IEC 60250
Dissipation Factor	0.026	0.20		IEC 60250
Additional Information				

干燥

Creep Rate Stress, DIN 53444, 1% Elongation: >8 N/mm² Creep Rate Stress, DIN 53444, 2% Elongation: >12 N/mm² Friction Wear: 0.09
 μm/Km Penetration Resistance, DIN 53482: 1E15 ohm-cm Creepage/leakage Resistance: KA3c Thermal Expansion: 0.1 %/10°C Safe Temperature Range,
 short periods: 170°C Safe Temperature Range, permanent: -30°C

调节后的

Creep Rate Stress, DIN 53444, 1% Elongation: >8 N/mm² Creep Rate Stress, DIN 53444, 2% Elongation: >12 N/mm² Friction Wear: 0.09
 μm/Km Penetration Resistance, DIN 53482: 1E12 ohm-cm Creepage/leakage Resistance: KA3b Thermal Expansion: 0.1 %/10°C Safe Temperature Range,
 short periods: 170°C Safe Temperature Range, permanent: 120°C

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