

LAMIGAMID® 100

Polyamide 6

Schwartz Technical Plastic

Message:

Applications:

machine parts under 80 Ø

hammer-heads

cup-shaped bearing shells

General Information				
Uses	Bearing			
Forms	Particle			
Processing Method	Extrusion			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
23°C, 24 hr	2.5 - 3.0	--	%	ISO 62
Saturated, 23°C	8.5 - 10	--	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	160	50.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3200	1800	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	80.0	42.0	MPa	ISO 527-2
Fracture	130	40.0	MPa	ISO 527-2
Tensile Strain (Break)	> 50	> 160	%	ISO 527-2
Flexural Modulus	2500	1400	MPa	ISO 178
Coefficient of Friction				ASTM D1894
With steel-dynamic	0.040	0.080		ASTM D1894
With steel-static	0.38	0.42		ASTM D1894
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact	No Break	No Break		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	190	--	°C	ISO 75-2/B
1.8 MPa, not annealed	95.0	--	°C	ISO 75-2/A
Melting Temperature (DSC)	220	--	°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	0.23	--	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	20	kV/mm	IEC 60243-1
Dielectric Constant	3.70	7.00		IEC 60250
Dissipation Factor	0.031	0.30		IEC 60250

Additional Information

干燥

Creep Rate Stress, DIN 53444, 1% Elongation: >7 N/mm² Creep Rate Stress, DIN 53444, 2% Elongation: >10.5 N/mm² Friction Wear: 0.23 μ m/Km Penetration Resistance, DIN 53482: 1E15 ohm-cm Creepage/leakage Resistance: KA3c Thermal Expansion: 0.1 %/10°C Safe Temperature Range, short periods: 160°C Safe Temperature Range, permanent: -40°C

调节后的

Creep Rate Stress, DIN 53444, 1% Elongation: >7 N/mm² Creep Rate Stress, DIN 53444, 2% Elongation: >10.5 N/mm² Penetration Resistance, DIN 53482: 1E12 ohm-cm Creepage/leakage Resistance: KA3b Safe Temperature Range, permanent: 100°C

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