

LAMIGAMID® 1200

Polyamide 12

Schwartz Technical Plastic

Message:

Applications:

Sprockets

Chain-Wheels

Pulleys

Wheels

Slide and Seal Rings

Curve Disks

General Information			
Uses	Wheels		
	Machine/mechanical parts		
	Sealing device		
Forms	Particle		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Density	1.03	g/cm ³	ISO 1183
Water Absorption			ISO 62
23°C, 24 hr	0.90	%	ISO 62
Saturated, 23°C	1.4	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	100	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2000	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	60.0	MPa	ISO 527-2
Fracture	90.0	MPa	ISO 527-2
Tensile Strain (Break)	> 20	%	ISO 527-2
Flexural Modulus	2000	MPa	ISO 178
Compressive Stress			ISO 604
20% strain	76.0	MPa	ISO 604
10% strain	56.0	MPa	ISO 604
5% strain	38.0	MPa	ISO 604
Coefficient of Friction (vs. Steel - Static)	0.38		ASTM D1894
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	> 10	kJ/m ²	ISO 180
Unnotched Izod Impact Strength	No Break		ISO 180
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature (0.45 MPa, Unannealed)	190	°C	ISO 75-2/B
Melting Temperature (DSC)	190	°C	ISO 3146
CLTE - Flow (20 to 100°C)	8.0E-5 - 1.0E-4	cm/cm/°C	ISO 11359-2
Specific Heat	2500	J/kg/°C	ASTM C351
Thermal Conductivity	0.25	W/m/K	ISO 8302
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+12	ohms	IEC 60093
Dielectric Strength	35	kV/mm	IEC 60243-1
Dielectric Constant	3.50		IEC 60250
Dissipation Factor	0.040		IEC 60250

Additional Information

Penetration Resistance, DIN 53482: 1E14 ohm-cmCreepage/leakage Resistance: KA3bSafe Temperature Range, short periods: 150°CSafe Temperature Range, permanent: 120°C

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