

Schwartz Technical Plastics LAMIGAMIDÂ® 1200 Cast Polyamide 12, Dry

Category : Polymer , Thermoplastic , Nylon , Nylon 12 , Nylon 12, Cast

Material Notes:

Application: sprockets, chain-wheels, pulleys, wheels, slide and seal rings, curve disks, etc. Information provided by Schwartz Technical Plastics GmbH

Order this product through the following link:

http://www.lookpolymers.com/polymer_Schwartz-Technical-Plastics-LAMIGAMID-1200-Cast-Polyamide-12-Dry.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/inÂ³	ISO R 1183
Moisture Absorption at Equilibrium	0.90 %	0.90 %	DIN 53473
Water Absorption at Saturation	1.4 % @Temperature 20.0 Â°C	1.4 % @Temperature 68.0 Â°F	ISO R 62

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	100 MPa	14500 psi	Hc 30; ISO 2039; partially
Tensile Strength, Yield	60.0 MPa	8700 psi	ISO-DIS 527
Tensile Modulus	2.00 GPa	290 ksi	DIN 53457
Flexural Strength	90.0 MPa	13100 psi	DIN 54352
Flexural Modulus	2.00 GPa	290 ksi	DIN 53457
Compressive Strength	38.0 MPa	5510 psi	5% pressing; EN ISO 604
	56.0 MPa	8120 psi	10% pressing; EN ISO 604
	76.0 MPa	11000 psi	20% pressing; EN ISO 604
Izod Impact, Notched (ISO)	>= 1.00 kJ/mÂ²	>= 0.476 ft-lb/inÂ²	DIN 53453
Izod Impact Resistance	NB	NB	swinging hammer 0,1 DIN 51222; DIN 53453
Coefficient of Friction, Dynamic	0.38	0.38	no lube; Steel 2162, Rvst=2E-6m, p=0.05 Mpa, v=0.6 m/s, t=40Â°C
Tear Strength Test	>= 0.20	>= 0.20	ISO-DIS 527

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 - 100 Âµm/m-Â°C @Temperature 20.0 -	44.4 - 55.6 Âµin/in-Â°F @Temperature 68.0 -	DIN 53752

Thermal Properties	100 °C Metric	212 °F English	Comments
Specific Heat Capacity	2.50 J/g-°C	0.598 BTU/lb-°F	
Thermal Conductivity	0.250 W/m-K	1.74 BTU-in/hr-ft²- °F	DIN 52612
Melting Point	190 °C	374 °F	ISO R 1218
Maximum Service Temperature, Air	120 °C	248 °F	Continuous
	150 °C	302 °F	Intermittent
Deflection Temperature at 0.46 MPa (66 psi)	190 °C	374 °F	V-notch; ISO R 75
Minimum Service Temperature, Air	-40.0 °C	-40.0 °F	Continuous

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	DIN 53482
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	DIN 53482
Dielectric Constant	3.5	3.5	DIN 53483
Dielectric Strength	35.0 kV/mm	889 kV/in	DIN 53481
Dielectric Loss Index	0.040	0.040	DIN 53483

Descriptive Properties	Value	Comments
Creepage/leakage Resistance	KA3b	DIN 53480

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