

Schwartz Technical Plastics LAMIGAMIDÂ® 200 Polyamide 66, Conditioned

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Application: bearing bushes, machine parts, gears, liners
Information provided by Schwartz Technical Plastics GmbH

Order this product through the following link:

http://www.lookpolymers.com/polymer_Schwartz-Technical-Plastics-LAMIGAMID-200-Polyamide-66-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/inÂ³	ISO R 1183
Moisture Absorption at Equilibrium	2.5 - 3.0 %	2.5 - 3.0 %	DIN 53473
Water Absorption at Saturation	7.5 - 9.0 % @Temperature 20.0 Â°C	7.5 - 9.0 % @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
Creep Strength	>= 8.00 MPa	>= 1160 psi	1% elongation, 1000 h; DIN 53444
	>= 12.0 MPa	>= 1740 psi	2% elongation, 1000 h; DIN 53444
Tensile Modulus	2.00 GPa	290 ksi	DIN 53457
Flexural Strength	60.0 MPa	8700 psi	DIN 54352
Flexural Modulus	2.00 GPa	290 ksi	DIN 53457
Izod Impact, Notched (ISO)	>= 15.0 kJ/mÂ²	>= 7.14 ft-lb/inÂ²	DIN 53453
Izod Impact Resistance	NB	NB	swinging hammer 0,1 DIN 51222; DIN 53453
Coefficient of Friction	0.080	0.080	With lubrication
Coefficient of Friction, Dynamic	0.42	0.42	no lube; Steel 2162, Rvst=2E-6m, p=0.05 Mpa, v=0.6 m/s, t=40Â°C
Tear Strength Test	>= 1.5	>= 1.5	ISO-DIS 527
K Factor (Wear Factor)	9.00e-11	9.00e-11	

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 - 80.0 Âµm/m-Â°C	38.9 - 44.4 Âµin/in-Â°F	DIN 53752

Thermal Properties	@Temperature 20.0 - Metric 100 Â°C	@Temperature 68.0 - English 212 Â°F	Comments
Specific Heat Capacity	1.67 J/g-Â°C	0.399 BTU/lb-Â°F	
Thermal Conductivity	0.200 W/m-K	1.39 BTU-in/hr-ftÂ²- Â°F	DIN 52612
Melting Point	255 Â°C	491 Â°F	ISO R 1218
Maximum Service Temperature, Air	120 Â°C	248 Â°F	Continuous
	170 Â°C	338 Â°F	Intermittent
Minimum Service Temperature, Air	-40.0 Â°C	-40.0 Â°F	Continuous

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	DIN 53482
Surface Resistance	1.00e+10 ohm	1.00e+10 ohm	DIN 53482
Dielectric Constant	5.0	5.0	DIN 53483
Dielectric Strength	40.0 kV/mm	1020 kV/in	DIN 53481
Dielectric Loss Index	0.20	0.20	DIN 53483

Descriptive Properties	Value	Comments
Creepage/leakage Resistance	KA3b	DIN 53480

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