

Schwartz Technical Plastics LAMIGAMIDÂ® 309 Cast Polyamide 6, Oil Filled, Conditioned

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Cast

Material Notes:

Application: slippers, inserts for coupling boxes, wear liners
Information provided by Schwartz Technical Plastics GmbH

Order this product through the following link:

http://www.lookpolymers.com/polymer_Schwartz-Technical-Plastics-LAMIGAMID-309-Cast-Polyamide-6-Oil-Filled-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/inÂ³	ISO R 1183
Moisture Absorption at Equilibrium	1.0 %	1.0 %	DIN 53473
Water Absorption at Saturation	4.0 % @Temperature 20.0 Â°C	4.0 % @Temperature 68.0 Â°F	ISO R 62

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	110 MPa	16000 psi	Hc 30; ISO 2039; partially
Tensile Strength, Yield	55.0 MPa	7980 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	2.30 GPa	334 ksi	DIN 53457
Flexural Strength	50.0 MPa	7250 psi	DIN 54352
Flexural Modulus	2.10 GPa	305 ksi	DIN 53457
Izod Impact, Notched (ISO)	>= 18.0 kJ/mÂ²	>= 8.57 ft-lb/inÂ²	ISO 180-1A
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	0.20	0.20	no lube; Steel 2162, Rvst=2E-6m, p=0.05 Mpa, v=0.6 m/s, t=40Â°C
Tear Strength Test	>= 0.30	>= 0.30	ISO-DIS 527
K Factor (Wear Factor)	6.00e-11	6.00e-11	

Thermal Properties	Metric	English	Comments
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Thermal Properties CTE, linear	70.0 - 80.0 Åµm/m-Å°C Metric	38.9 - 44.4 Åµin/in-Å°F English	Comments DIN 53752
	@Temperature 20.0 - 100 Å°C	@Temperature 68.0 - 212 Å°F	
Specific Heat Capacity	1.67 J/g-Å°C	0.399 BTU/lb-Å°F	
Thermal Conductivity	0.250 W/m-K	1.74 BTU-in/hr-ftÅ²-Å°F	DIN 52612
Melting Point	200 - 220 Å°C	392 - 428 Å°F	ISO R 1218
Maximum Service Temperature, Air	120 Å°C	248 Å°F	Continuous
	180 Å°C	356 Å°F	Intermittent
Deflection Temperature at 0.46 MPa (66 psi)	200 Å°C	392 Å°F	V-notch; ISO R 75
Deflection Temperature at 1.8 MPa (264 psi)	110 Å°C	230 Å°F	V-notch; ISO R 75
Minimum Service Temperature, Air	-40.0 Å°C	-40.0 Å°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	3.7	3.7	DIN 53483
Dielectric Strength	20.0 kV/mm	508 kV/in	DIN 53481
Dielectric Loss Index	0.030	0.030	DIN 53483

Descriptive Properties	Value	Comments
Creepage/leakage Resistance	KA3b	DIN 53480

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