

Schwartz Technical Plastics LAMIGAMIDÂ® 710 High Density Polyethylene

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

Material Notes:

Application: chain-guides, cutting plates, liners
Information provided by Schwartz Technical Plastics GmbH

Order this product through the following link:

http://www.lookpolymers.com/polymer_Schwartz-Technical-Plastics-LAMIGAMID-710-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.955 g/cc	0.0345 lb/inÂ³	ISO R 1183
Moisture Absorption at Equilibrium	0.00 %	0.00 %	DIN 53473
Water Absorption at Saturation	>= 0.10 % @Temperature 20.0 Â°C	>= 0.10 % @Temperature 68.0 Â°F	ISO R 62

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	36.0 MPa	5220 psi	Hc 30; ISO 2039; partially
Tensile Strength, Yield	24.0 MPa	3480 psi	ISO-DIS 527
Creep Strength	2.80 MPa	406 psi	1% elongation, 1000 h; DIN 53444
	4.50 MPa	653 psi	2% elongation, 1000 h; DIN 53444
Tensile Modulus	1.00 GPa	145 ksi	DIN 53457
Flexural Strength	31.0 MPa	4500 psi	DIN 54352
Flexural Modulus	0.900 GPa	131 ksi	DIN 53457
Izod Impact, Notched (ISO)	18.0 kJ/mÂ²	8.57 ft-lb/inÂ²	DIN 53453
Izod Impact Resistance	NB	NB	swinging hammer 0,1 DIN 51222; DIN 53453
Coefficient of Friction	0.020 - 0.080	0.020 - 0.080	With lubrication
Coefficient of Friction, Dynamic	0.29	0.29	no lube; Steel 2162, Rvst=2E-6m, p=0.05 Mpa, v=0.6 m/s, t=40Â°C
Tear Strength Test	>= 8.0	>= 8.0	ISO-DIS 527
K Factor (Wear Factor)	1.0e-9	1.0e-9	

Thermal Properties	Metric	English	Comments
CTE, linear	200 Âµm/m-Â°C	111 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	2.30 J/g-Â°C	0.550 BTU/lb-Â°F	
Thermal Conductivity	0.140 W/m-K	0.972 BTU-in/hr-ftÂ²- Â°F	DIN 52612
Melting Point	130 Â°C	266 Â°F	ISO R 1218
Maximum Service Temperature, Air	80.0 Â°C	176 Â°F	Continuous
	120 Â°C	248 Â°F	Intermittent
Minimum Service Temperature, Air	-100 Â°C	-148 Â°F	Continuous

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	DIN 53482
Dielectric Constant	3.3	3.3	DIN 53483
Dielectric Strength	50.0 kV/mm	1270 kV/in	DIN 53481
Dielectric Loss Index	0.00020	0.00020	DIN 53483

Descriptive Properties	Value	Comments
Creepage/leakage Resistance	KA3b	DIN 53480

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