

EMS-Grivory Grivory® XE 3926 black 9992 PA12

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

Product description: Grilamid XE 3926 black 9992 is a low viscosity extrusion type, based on Polyamide 12 (PA 12). The special features of Grilamid XE 3926 black 9992 are: Very good chemical resistance Good adhesion to Polymer Optical Fibers (POF) Low influence on the dampening of the transmission of optical fibers Low density, low weight Grilamid XE 3926 black 9992 is especially suitable for high speed extrusion of thin walled inner sheathings for polymer optical fibers (POF). Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-XE-3926-black-9992-PA12.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in ³	ISO 1183
Water Absorption	1.5 %	1.5 %	ISO 62
Moisture Absorption	0.700 %	0.700 %	ISO 62

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	70.0 MPa	10200 psi	conditioned; ISO 2039-1
Tensile Strength at Break	50.0 MPa	7250 psi	conditioned; ISO 527-1/-2
Tensile Strength, Yield	40.0 MPa	5800 psi	
Elongation at Break	>= 50 %	>= 50 %	conditioned; ISO 527-1/-2
	>= 50 %	>= 50 %	conditioned; ISO 527-1/-2
Elongation at Yield	15 %	15 %	conditioned; ISO 527-1/-2
Tensile Modulus	1.10 GPa	160 ksi	conditioned; ISO 527-1/-2
Charpy Impact Unnotched	NB	NB	conditioned; ISO 179/1eU
	NB	NB	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	0.700 J/cm ²	3.33 ft-lb/in ²	conditioned; ISO 179/1eA
	0.600 J/cm ²	2.86 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	120 µm/m-°C	66.7 µin/in-°F	ISO 11359-1/-2

CTE, linear, Transverse to Flow Thermal Properties	140 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ Metric	77.8 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ English	ISO 11359-1/-2 Comments
Melting Point	178 °C	352 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	80.0 - 100 °C	176 - 212 °F	long term; EMS
	150 °C	302 °F	short term; EMS
Deflection Temperature at 0.46 MPa (66 psi)	115 °C	239 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	45.0 °C	113 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	conditioned; IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Strength	32.0 kV/mm	813 kV/in	conditioned; IEC 60243-1
Comparative Tracking Index	600 V	600 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Automotive electr. and electronics, lighting	
Electricals & Electronics	Cables & Tubes	
Form	Granules	
Industry & Consumer goods	Hydraulics & Pneumatics	
	Mechanical Engineering	
Processing	Injection Molding	
	Other Extrusion	
Product Attributes	Improved flowability and demoulding	

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