

EMS-Grivory Grivory® LVX-50H nat PA12-GF50

Category : Polymer , Thermoplastic , Nylon , Nylon 12 , Nylon 12, 50% Glass Fiber Filled

Material Notes:

Product description: Grilamid LVX-50H natural is a 50% glass fiber reinforced, heat stabilized polyamide 12. Special characteristics of this injection molding product are: Very high stiffness and strengthExcellent impact and notched impact strengthExcellent UV, heat and chemical resistanceVery low moisture absorptionSuitable for repeated steam sterilizationGood flow characteristicsHigh molding precision, low warpage Grilamid LVX-50H natural is especially suitable for complex structural parts in applications such as: Electronic devicesAutomotiveMechanical engineeringSafety componentsMedical devices and instrumentsSports & leisure goodsInformation provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-LVX-50H-nat-PA12-GF50.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in ³	ISO 1183
Water Absorption	0.80 %	0.80 %	ISO 62
Moisture Absorption	0.400 %	0.400 %	ISO 62
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0040 cm/cm	0.0040 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	145 MPa	21000 psi	conditioned; ISO 527-1/-2
Elongation at Break	3.5 %	3.5 %	conditioned; ISO 527-1/-2
Tensile Modulus	12.0 GPa	1740 ksi	conditioned; ISO 527-1/-2
Charpy Impact Unnotched	8.50 J/cm ²	40.4 ft-lb/in ²	conditioned; ISO 179/1eU
	8.50 J/cm ² @Temperature 30.0 °C	40.4 ft-lb/in ² @Temperature 86.0 °F	conditioned; ISO 179/1eU
Charpy Impact, Notched	2.50 J/cm ²	11.9 ft-lb/in ²	conditioned; ISO 179/1eA
	2.00 J/cm ² @Temperature 30.0 °C	9.52 ft-lb/in ² @Temperature 86.0 °F	conditioned; ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	15.0 µm/m-°C	8.33 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	90.0 µm/m-°C	50.0 µin/in-°F	ISO 11359-1/-2

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	90.0 - 120 °C	194 - 248 °F	long term; EMS
	150 °C	302 °F	short term; EMS
Deflection Temperature at 1.8 MPa (264 psi)	170 °C	338 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	130 °C	266 °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	55.0 kV/mm	1400 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	
	Compressed air systems	
	Exterior	
	Fuel systems	
	Hydraulic systems	
	Interior	
Electricals & Electronics	Connectors	
	Electrical appliances	
	Electrical equipment	
	Lighting	
	Mobile phones and other portable devices	
Form	Granules	
Industry & Consumer goods	Housewares	
	Hydraulics & Pneumatics	

Descriptive Properties	Value	Comments
	Mechanical Engineering	
	Medical devices	
	Power transmission	
	Sports & Leisure	
	Tools & Accessories	
Processing	Injection Molding	
Product Attributes	Improved flowability and demoulding	
Special Characteristics	High impact or impact modified	
	Improved heat resistance	
	Improved UV resistance (outdoor use)	

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