

EMS-Grivory Grivory® TRVX-50X9 nat PAMACM12-GF50

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

Material Notes:

Product description: Grilamid TRVX-50X9 is a 50% glass fiber reinforced amorphous polyamide. This product shows a very low tendency of distortion and is therefore especially suitable for complex and thin walled designs. It offers a variety of interesting properties such as: High stiffness and strength Good impact resistance Very low distortion Minor sink mark tendency Low flash tendency High dimensional stability Low moisture absorption Easy processing with good melt flow Grilamid TRVX-50X9 can be used for applications in: Electrical / Electronics Telecommunication Construction / Industry Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-TRVX-50X9-nat-PAMACM12-GF50.php

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in ³	ISO 1183
Water Absorption	1.0 %	1.0 %	ISO 62
Moisture Absorption	0.300 %	0.300 %	ISO 62
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0010 cm/cm	0.0010 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	190 MPa	27600 psi	conditioned; ISO 2039-1
Tensile Strength at Break	160 MPa	23200 psi	conditioned; ISO 527-1/-2
Elongation at Break	2.1 %	2.1 %	conditioned; ISO 527-1/-2
Tensile Modulus	12.5 GPa	1810 ksi	conditioned; ISO 527-1/-2
Charpy Impact Unnotched	6.50 J/cm ²	30.9 ft-lb/in ²	conditioned; ISO 179/1eU
	6.00 J/cm ² @Temperature 30.0 °C	28.6 ft-lb/in ² @Temperature 86.0 °F	conditioned; ISO 179/1eU
Charpy Impact, Notched	1.60 J/cm ²	7.61 ft-lb/in ²	conditioned; ISO 179/1eA
	1.50 J/cm ² @Temperature 30.0 °C	7.14 ft-lb/in ² @Temperature 86.0 °F	conditioned; ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 µm/m-°C	11.1 µin/in-°F	ISO 11359-1/-2

CTE, linear, Transverse to Flow Thermal Properties	80.0 µm/m-°C Metric	44.4 µm/in-°F English	ISO 11359-1/-2 Comments
Maximum Service Temperature, Air	80.0 - 110 °C	176 - 230 °F	long term; EMS
	120 °C	248 °F	short term; EMS
Transformation Temperature, Tg	125 °C	257 °F	10°C/min; ISO 11357-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	115 °C	239 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	105 °C	221 °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	
	Cooling and climate control	
	Powertrain and Chassis	
Electricals & Electronics	Electrical appliances	
	Electrical equipment	
	Energy distribution	
	Mobile phones and other portable devices	
Form	Granules	
Industry & Consumer goods	Heating systems	
	Housewares	
	Hydraulics & Pneumatics	
	Mechanical Engineering	
	Medical devices	
	Power transmission	

Descriptive Properties	Value & Accessories	Comments
Processing	Injection Molding	

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