

EMS-Grivory Grivory® GVX-6 H nat PA*-GF60

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Product description: Grivory GVX-6H natural is a 60% glass-fiber reinforced engineering thermoplastic material based on a combination of semi-crystalline polyamide with partially aromatic copolyamide. Grivory GVX-6H natural has an optimized flowability and is suitable for injection molding technical parts, exhibiting exceptional characteristics even after moisture absorption: high stiffness and strength, high dimensional stability, very low warpage, good chemical resistance, very good surface finish. Grivory GVX-6H natural is the economical alternative to die-cast alloys. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-GVX-6-H-nat-PA-GF60.php

Physical Properties	Metric	English	Comments
Density	1.69 g/cc	0.0611 lb/in ³	ISO 1183
Water Absorption	3.5 %	3.5 %	ISO 62
Moisture Absorption	1.20 %	1.20 %	ISO 62
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0020 cm/cm	0.0020 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	305 MPa	44200 psi	conditioned; ISO 2039-1
	320 MPa	46400 psi	dry; ISO 2039-1
Tensile Strength at Break	260 MPa	37700 psi	conditioned; ISO 527-1/-2
	290 MPa	42100 psi	dry; ISO 527-1/-2
Elongation at Break	2.0 %	2.0 %	dry; ISO 527-1/-2
	2.0 %	2.0 %	conditioned; ISO 527-1/-2
Tensile Modulus	22.0 GPa	3190 ksi	conditioned; ISO 527-1/-2
	22.5 GPa	3260 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	7.00 J/cm ²	33.3 ft-lb/in ²	conditioned; ISO 179/1eU
	7.50 J/cm ²	35.7 ft-lb/in ²	dry; ISO 179/1eU
	7.00 J/cm ²	33.3 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	7.00 J/cm ²	33.3 ft-lb/in ²	

Mechanical Properties	Metric @ Temperature 30.0 °C	English @ Temperature 86.0 °F	Comments conditioned; ISO 179/1eU
Charpy Impact, Notched	1.50 J/cm ²	7.14 ft-lb/in ²	dry; ISO 179/1eA
	1.50 J/cm ²	7.14 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	dry; ISO 179/1eU
	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	15.0 µm/m-°C	8.33 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	50.0 µm/m-°C	27.8 µin/in-°F	ISO 11359-1/-2
Melting Point	260 °C	500 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	100 - 120 °C	212 - 248 °F	long term; EMS
	220 °C	428 °F	short term; EMS
Deflection Temperature at 1.8 MPa (264 psi)	250 °C	482 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	205 °C	401 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	dry; IEC 60093
	1.00e+12 ohm-cm	1.00e+12 ohm-cm	conditioned; IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Strength	33.0 kV/mm	838 kV/in	dry; IEC 60243-1
	33.0 kV/mm	838 kV/in	conditioned; IEC 60243-1
Comparative Tracking Index	600 V	600 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Air intake systems	
	Automotive electr. and electronics, lighting	
	Cooling and climate control	

Descriptive Properties	Value Exterior	Comments
	Interior	
	Powertrain and Chassis	
Electricals & Electronics	Connectors	
	Electrical appliances	
	Electrical equipment	
	Energy distribution	
	Mobile phones and other portable devices	
Form	Granules	
Industry & Consumer goods	Housewares	
	Hydraulics & Pneumatics	
	Mechanical Engineering	
	Power transmission	
	Sanitary, water and gas supply	
	Sports & Leisure	
	Tools & Accessories	
Processing	Injection Molding	
Product Attributes	Improved flowability and demoulding	
	Partially aromatic Polyamide	

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