

EMS-Grivory Grivory® GVL-6H black 9839 PA*-GF60

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Product description: Grivory GVL-6H black is based on a combination of a heat stabilized semi-crystalline Polyamide with a partially aromatic Polyamide and 60% long glass fibers. Grivory GVL-6H black is characterized by the following key-properties: high stiffness and strength even after conditioning and over a wide temperature range excellent notched impact resistance also at low temperatures low creep high heat distortion temperatures low moisture absorption very good dimensional stability and little warpage The product has been designed for injection molding of technical parts especially in the area of die-cast metal replacement. Grivory GVL-6H black is used in the following market segments: automotive mechanical engineering household and appliances The glass-fibers are aligned in parallel and are just as long as the pellets (usually 10 mm). Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-GVL-6H-black-9839-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	285 MPa	41300 psi	conditioned; ISO 2039-1
	310 MPa	45000 psi	dry; ISO 2039-1
Tensile Strength at Break	250 MPa	36300 psi	conditioned; ISO 527-1/-2
	290 MPa	42100 psi	dry; ISO 527-1/-2
Elongation at Break	2.1 %	2.1 %	dry; ISO 527-1/-2
	2.1 %	2.1 %	conditioned; ISO 527-1/-2
Tensile Modulus	21.0 GPa	3050 ksi	conditioned; ISO 527-1/-2
	22.5 GPa	3260 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	10.5 J/cm ²	50.0 ft-lb/in ²	conditioned; ISO 179/1eU
	11.0 J/cm ²	52.3 ft-lb/in ²	dry; ISO 179/1eU
	9.00 J/cm ²	42.8 ft-lb/in ²	dry; ISO 179/1eU

Mechanical Properties	@Temperature 30.0 °C Metric	@Temperature 86.0 °F English	Comments
	9.00 J/cm²	42.8 ft-lb/in²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	4.00 J/cm²	19.0 ft-lb/in²	dry; ISO 179/1eA
	4.00 J/cm²	19.0 ft-lb/in²	conditioned; ISO 179/1eA
	4.00 J/cm²	19.0 ft-lb/in²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	4.00 J/cm²	19.0 ft-lb/in²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

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	40.0 µm/m-°C	22.2 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)	255 °C	491 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	225 °C	437 °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+13 ohm	1.00e+13 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	Automotive electr. and electronics, lighting	

Descriptive Properties	Cooling and climate control Value	Comments
	Exterior	
	Interior	
	Powertrain and Chassis	
Electricals & Electronics	Connectors	
	Electrical appliances	
	Electrical equipment	
	Energy distribution	
Form	Granules	
Industry & Consumer goods	Housewares	
	Hydraulics & Pneumatics	
	Mechanical Engineering	
	Power transmission	
	Sports & Leisure	
	Tools & Accessories	
Processing	Injection Molding	
Product Attributes	Improved flowability and demoulding	
	Long Fiber Reinforced	
	Partially aromatic Polyamide	
Special Characteristics	Improved heat resistance	

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