

EMS-Grivory Grivory® GVN-5H black 9915 PA*-GF50

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Product description: Grivory GVN-5H is a 50 % glass-fiber reinforced, impact-modified engineering thermoplastic material based on a combination of semicrystalline polyamide with partially aromatic copolyamide. Grivory GVN-5H black 9915 is used for injection molding technical parts, exhibiting exceptional characteristics even after moisture absorption: high stiffness and strengthdimensional stability, low warpagegood chemical resistancegood surface finishgood impact strength Grivory GV is the economical alternative to die-cast alloys. It is suitable for production of technical parts in the application fields of: Electro / ElectronicsAutomotiveSafety technologyMechanical engineeringDomestic appliancesInformation provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-GVN-5H-black-9915-PA-GF50.php

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in³	ISO 1183
Water Absorption	4.0 %	4.0 %	ISO 62
Moisture Absorption	1.30 %	1.30 %	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
Ball Indentation Hardness	235 MPa	34100 psi	conditioned; ISO 2039-1
	265 MPa	38400 psi	dry; ISO 2039-1
Tensile Strength at Break	190 MPa	27600 psi	conditioned; ISO 527-1/-2
	220 MPa	31900 psi	dry; ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	dry; ISO 527-1/-2
	4.0 %	4.0 %	conditioned; ISO 527-1/-2
Tensile Modulus	14.5 GPa	2100 ksi	conditioned; ISO 527-1/-2
	15.5 GPa	2250 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	9.50 J/cm²	45.2 ft-lb/in²	dry; ISO 179/1eU
	9.50 J/cm²	45.2 ft-lb/in²	conditioned; ISO 179/1eU
	8.50 J/cm² @Temperature 30.0 °C	40.4 ft-lb/in² @Temperature 86.0 °F	dry; ISO 179/1eU

Mechanical Properties	Metric ^{lb/in²}	English ^{lb/in²}	Comments
	@Temperature 30.0 °C	@Temperature 86.0 °F	conditioned; ISO 179/1eU
Charpy Impact, Notched	1.60 J/cm ²	7.61 ft-lb/in ²	dry; ISO 179/1eA
	1.60 J/cm ²	7.61 ft-lb/in ²	conditioned; ISO 179/1eA
	1.40 J/cm ²	6.66 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	1.40 J/cm ²	6.66 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	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
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)	240 °C	464 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	165 °C	329 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	dry; IEC 60093
	1.00e+14 ohm-cm	1.00e+14 ohm-cm	conditioned; IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Strength	35.0 kV/mm	889 kV/in	dry; IEC 60243-1
	35.0 kV/mm	889 kV/in	conditioned; IEC 60243-1
Comparative Tracking Index	575 V	575 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Air intake sytems	
	Automotive electr. and electronics, lighting	

Descriptive Properties	Value	g and climate control	Comments
	Exterior		
	Interior		
	Powertrain and Chassis		
Electricals & Electronics	Electrical appliances		
	Electrical equipment		
	Energy distribution		
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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