

EMS-Grivory Grivory® GV-4H black PA*-GF40

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Product description: Grivory GV-4H black 9915 is a 40% glass fiber reinforced engineering thermoplastic material based on a combination of semicrystalline Polyamide with partially aromatic copolyamide. Grivory GV-4H is used for injection molding technical parts, exhibiting exceptional characteristics even after moisture absorption: high stiffness and strengthdimensional stability, low warpagegood chemical resistancegood surface finish 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 appliances Grivory GV-4H black 9915 is a specially heat stabilized material. It is particularly suitable and approved for parts in house-hold appliances in contact with food and cold drinking water.Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-GV-4H-black-PA-GF40.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in ³	ISO 1183
Water Absorption	4.5 %	4.5 %	ISO 62
Moisture Absorption	1.40 %	1.40 %	ISO 62
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	230 MPa	33400 psi	conditioned; ISO 2039-1
	255 MPa	37000 psi	dry; ISO 2039-1
Tensile Strength at Break	210 MPa	30500 psi	conditioned; ISO 527-1/-2
	230 MPa	33400 psi	dry; ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	dry; ISO 527-1/-2
	3.0 %	3.0 %	conditioned; ISO 527-1/-2
Tensile Modulus	13.0 GPa	1890 ksi	conditioned; ISO 527-1/-2
	14.0 GPa	2030 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	9.00 J/cm ²	42.8 ft-lb/in ²	dry; ISO 179/1eU
	9.00 J/cm ²	42.8 ft-lb/in ²	conditioned; ISO 179/1eU
	7.00 J/cm ²	33.3 ft-lb/in ²	dry; ISO 179/1eU

Mechanical Properties	@Temperature 30.0 °C Metric	@Temperature 86.0 °F English	Comments
	7.00 J/cm ²	33.3 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	1.30 J/cm ²	6.19 ft-lb/in ²	conditioned; ISO 179/1eA
	1.30 J/cm ²	6.19 ft-lb/in ²	dry; ISO 179/1eA
	1.10 J/cm ²	5.23 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	1.10 J/cm ²	5.23 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)	235 °C	455 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	145 °C	293 °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	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 sytems	

Descriptive Properties	Automotive electr. and electronics, lighting Value	Comments
	Cooling and climate control	
	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	Partially aromatic Polyamide	

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