

EMS-Grivory Grivory® G4V-5H black 9915 PA*-GF50

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Product description: Grivory G4V-5H is a 50% glass fiber reinforced engineering thermoplastic material based on a semi-crystalline partially aromatic copolyamide. Grivory G4V-5H 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 G4V-5H is the economical alternative to die-cast alloys. It is suitable for production of technical parts in the application fields of:Electro / ElectronicsAutomotiveMechanical engineeringDomestic appliancesInformation provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-G4V-5H-black-9915-PA-GF50.php

Physical Properties	Metric	English	Comments
Density	1.59 g/cc	0.0574 lb/in ³	ISO 1183
Water Absorption	4.0 %	4.0 %	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	0.0040 cm/cm	0.0040 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	275 MPa	39900 psi	conditioned; ISO 2039-1
	290 MPa	42100 psi	dry; ISO 2039-1
Tensile Strength at Break	200 MPa	29000 psi	conditioned; ISO 527-1/-2
	230 MPa	33400 psi	dry; ISO 527-1/-2
Elongation at Break	2.0 %	2.0 %	dry; ISO 527-1/-2
	2.5 %	2.5 %	conditioned; ISO 527-1/-2
Tensile Modulus	16.5 GPa	2390 ksi	conditioned; ISO 527-1/-2
	16.5 GPa	2390 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	7.50 J/cm ²	35.7 ft-lb/in ²	dry; ISO 179/1eU
	7.50 J/cm ²	35.7 ft-lb/in ²	conditioned; ISO 179/1eU
	5.00 J/cm ²	23.8 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	6.00 J/cm ²	28.6 ft-lb/in ²	

Mechanical Properties	Metric @ Temperature 30.0 °C	English @ Temperature 86.0 °F	dry; ISO 179/1eU Comments
Charpy Impact, Notched	1.40 J/cm ²	6.66 ft-lb/in ²	conditioned; ISO 179/1eA
	1.50 J/cm ²	7.14 ft-lb/in ²	dry; ISO 179/1eA
	1.40 J/cm ² @Temperature 30.0 °C	6.66 ft-lb/in ² @Temperature 86.0 °F	conditioned; ISO 179/1eU
	1.50 J/cm ² @Temperature 30.0 °C	7.14 ft-lb/in ² @Temperature 86.0 °F	dry; ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	10.0 μm/m-°C	5.56 μin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	60.0 μm/m-°C	33.3 μin/in-°F	ISO 11359-1/-2
Melting Point	235 °C	455 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	140 °C	284 °F	long term; EMS
	220 °C	428 °F	short term; EMS
Deflection Temperature at 1.8 MPa (264 psi)	215 °C	419 °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+12 ohm-cm	1.00e+12 ohm-cm	dry; IEC 60093
	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	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	600 V	600 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Air intake systems	
	Automotive electr. and electronics, lighting	
	Compressed air systems	

Descriptive Properties	Value	Comments
	Cooling and climate control	
	Exterior	
	Fuel systems	
Electricals & Electronics	Electrical equipment	
	Energy distribution	
	Lighting	
Form	Granules	
Processing	Injection Molding	
Product Attributes	Barrier Properties	
	Co Polyamide	
	High viscosity	
	Long Fiber Reinforced	
	Masterbatch	
	Nucleated	
	Transparent Polyamide	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China