

## EMS-Grivory Grivory® GV-6H EF nat PA\*-GF60

Category : Polymer , Thermoplastic , Nylon

### Material Notes:

Product description: Grivory GV-6H EF black 9915 is a 60% glass-fiber reinforced engineering thermoplastic material based on a combination of semi-crystalline Polyamide with partially aromatic copolyamide. Grivory GV-6H EF black 9915 is used for injection molding technical parts with good surface quality and short cycle times, 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. Information provided by EMS Grivory

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_EMS-Grivory-Grivory-GV-6H-EF-nat-PA-GF60.php](http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-GV-6H-EF-nat-PA-GF60.php)

Physical Properties	Metric	English	Comments
Density	1.69 g/cc	0.0611 lb/in <sup>3</sup>	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	0.0030 cm/cm	0.0030 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	290 MPa	42100 psi	conditioned; ISO 2039-1
	315 MPa	45700 psi	dry; ISO 2039-1
Tensile Strength at Break	240 MPa	34800 psi	conditioned; ISO 527-1/-2
	260 MPa	37700 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	21.0 GPa	3050 ksi	conditioned; ISO 527-1/-2
	22.0 GPa	3190 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	8.00 J/cm <sup>2</sup>	38.1 ft-lb/in <sup>2</sup>	dry; ISO 179/1eU
	8.00 J/cm <sup>2</sup>	38.1 ft-lb/in <sup>2</sup>	conditioned; ISO 179/1eU
	8.00 J/cm <sup>2</sup>	38.1 ft-lb/in <sup>2</sup>	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	8.00 J/cm <sup>2</sup>	38.1 ft-lb/in <sup>2</sup>	

Mechanical Properties	Metric @ Temperature 30.0 °C	English @ Temperature 86.0 °F	Comments conditioned; ISO 179/1eU
Charpy Impact, Notched	1.40 J/cm <sup>2</sup>	6.66 ft-lb/in <sup>2</sup>	dry; ISO 179/1eA
	1.40 J/cm <sup>2</sup>	6.66 ft-lb/in <sup>2</sup>	conditioned; ISO 179/1eA
	1.30 J/cm <sup>2</sup> @Temperature 30.0 °C	6.19 ft-lb/in <sup>2</sup> @Temperature 86.0 °F	dry; ISO 179/1eU
	1.30 J/cm <sup>2</sup> @Temperature 30.0 °C	6.19 ft-lb/in <sup>2</sup> @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	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	175 °C	347 °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	
	Compressed air systems	
	Cooling and climate control	

Descriptive Properties	Value	Comments
	Fuel systems	
Electricals & Electronics	Connectors	
	Electrical appliances	
	Electrical equipment	
	Energy distribution	
	Lighting	
	Mobile phones and other portable devices	
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](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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