

## EMS-Grivory Grivory® GVN-35H black 9915 PA\*-GF35

Category : Polymer , Thermoplastic , Nylon

### Material Notes:

Product description: Grivory GVN-35H is a 35% glass-fiber reinforced, impact-modified engineering thermoplastic material based on a combination of semicrystalline polyamide with partially aromatic copolyamide. Grivory GVN-35H 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-35H-black-9915-PA-GF35.php](http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-GVN-35H-black-9915-PA-GF35.php)

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in <sup>3</sup>	ISO 1183
Water Absorption	4.5 %	4.5 %	ISO 62
Moisture Absorption	1.50 %	1.50 %	ISO 62
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	185 MPa	26800 psi	conditioned; ISO 2039-1
	215 MPa	31200 psi	dry; ISO 2039-1
Tensile Strength at Break	140 MPa	20300 psi	conditioned; ISO 527-1/-2
	170 MPa	24700 psi	dry; ISO 527-1/-2
Elongation at Break	4.0 %	4.0 %	dry; ISO 527-1/-2
	5.0 %	5.0 %	conditioned; ISO 527-1/-2
Tensile Modulus	9.00 GPa	1310 ksi	conditioned; ISO 527-1/-2
	10.5 GPa	1520 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	8.50 J/cm <sup>2</sup>	40.4 ft-lb/in <sup>2</sup>	dry; ISO 179/1eU
	8.50 J/cm <sup>2</sup>	40.4 ft-lb/in <sup>2</sup>	conditioned; ISO 179/1eU
	8.00 J/cm <sup>2</sup> @Temperature 30.0 °C	38.1 ft-lb/in <sup>2</sup> @Temperature 86.0 °F	dry; ISO 179/1eU

Mechanical Properties	Metric <sup>1</sup> /cm <sup>2</sup>	English <sup>1b</sup> /in <sup>2</sup>	Comments
	@Temperature 30.0 °C	@Temperature 86.0 °F	conditioned; ISO 179/1eU
Charpy Impact, Notched	1.50 J/cm <sup>2</sup>	7.14 ft-lb/in <sup>2</sup>	dry; ISO 179/1eA
	1.50 J/cm <sup>2</sup>	7.14 ft-lb/in <sup>2</sup>	conditioned; ISO 179/1eA
	1.30 J/cm <sup>2</sup>	6.19 ft-lb/in <sup>2</sup>	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	1.30 J/cm <sup>2</sup>	6.19 ft-lb/in <sup>2</sup>	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	70.0 °C	158 °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	Partially aromatic Polyamide	
Special Characteristics	High impact or impact modified	

## Contact Songhan Plastic Technology Co.,Ltd.

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