

## EMS-Grivory Grivory® HT2VZ-33H PA6T/66-GF33

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/6 , 30% Glass Fiber Reinforced

### Material Notes:

Product description: Grivory HT2VZ-33H is a 33% glass fiber reinforced engineering thermoplastic material based on a semi-crystalline, partially aromatic copolyamide. Grivory HT2VZ-33H is an injection molding material. The main distinguishing feature of Grivory HT, when compared to other polyamides, is good performance at high temperatures providing parts which are stiffer, stronger and have better heat distortion stability and chemical resistance. Grivory HT is suitable for production of technical parts in the application fields of:

ElectroElectronicsAutomotiveSafety technologyMechanical engineeringInformation provided by EMS Grivory

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_EMS-Grivory-Grivory-HT2VZ-33H-PA6T66-GF33.php](http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-HT2VZ-33H-PA6T66-GF33.php)

Physical Properties	Metric	English	Comments
Density	1.44 g/cc	0.0520 lb/in <sup>3</sup>	ISO 1183
Water Absorption	5.0 %	5.0 %	ISO 62
Moisture Absorption	2.00 %	2.00 %	ISO 62
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	240 MPa	34800 psi	conditioned; ISO 2039-1
	260 MPa	37700 psi	dry; ISO 2039-1
Tensile Strength at Break	180 MPa	26100 psi	conditioned; ISO 527-1/-2
	200 MPa	29000 psi	dry; ISO 527-1/-2
Elongation at Break	2.5 %	2.5 %	dry; ISO 527-1/-2
	2.5 %	2.5 %	conditioned; ISO 527-1/-2
Tensile Modulus	11.0 GPa	1600 ksi	conditioned; ISO 527-1/-2
	11.0 GPa	1600 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	5.50 J/cm <sup>2</sup>	26.2 ft-lb/in <sup>2</sup>	dry; ISO 179/1eU
	5.50 J/cm <sup>2</sup>	26.2 ft-lb/in <sup>2</sup>	conditioned; ISO 179/1eU
	4.50 J/cm <sup>2</sup>	21.4 ft-lb/in <sup>2</sup>	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	5.00 J/cm <sup>2</sup>	23.8 ft-lb/in <sup>2</sup>	

Mechanical Properties	Metric @ Temperature 30.0 °C	English @ Temperature 86.0 °F	dry; ISO 179/1eU Comments
Charpy Impact, Notched	1.00 J/cm <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	dry; ISO 179/1eA
	1.00 J/cm <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	conditioned; ISO 179/1eA
	0.900 J/cm <sup>2</sup> @Temperature 30.0 °C	4.28 ft-lb/in <sup>2</sup> @Temperature 86.0 °F	dry; ISO 179/1eU
	0.900 J/cm <sup>2</sup> @Temperature 30.0 °C	4.28 ft-lb/in <sup>2</sup> @Temperature 86.0 °F	conditioned; ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 µm/m-°C	11.1 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	310 °C	590 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	140 °C	284 °F	long term; EMS
	240 °C	464 °F	short term; EMS
Deflection Temperature at 1.8 MPa (264 psi)	285 °C	545 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	200 °C	392 °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+12 ohm-cm	1.00e+12 ohm-cm	conditioned; IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Strength	37.0 kV/mm	940 kV/in	conditioned; IEC 60243-1
	38.0 kV/mm	965 kV/in	dry; IEC 60243-1
Comparative Tracking Index	600 V	600 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Automotive electr. and electronics, lighting	
	Exterior	
	Fuel systems	

Descriptive Properties	Value <i>Interior</i>	Comments
	Powertrain and Chassis	
Electricals & Electronics	Connectors	
	Electrical equipment	
Form	Granules	
Industry & Consumer goods	Housewares	
	Hydraulics & Pneumatics	
	Mechanical Engineering	
	Power transmission	
	Sports & Leisure	
	Tools & Accessories	
Processing	Injection Molding	
Special Characteristics	High impact or impact modified	
	Improved heat resistance	
	Improved UV resistance (outdoor use)	

## Contact Songhan Plastic Technology Co.,Ltd.

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