

## EMS-Grivory Grivory® BGZ-50/2 PA6-I-GF50

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 50% Glass Fiber Filled

### Material Notes:

Information provided by EMS Grivory

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_EMS-Grivory-Grivory-BGZ-502-PA6-I-GF50.php](http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-BGZ-502-PA6-I-GF50.php)

Physical Properties	Metric	English	Comments
Density	1.57 g/cc	0.0567 lb/in <sup>3</sup>	ISO 1183
Water Absorption	5.0 %	5.0 %	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	0.0030 cm/cm	0.0030 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	170 MPa	24700 psi	conditioned; ISO 2039-1
	280 MPa	40600 psi	dry; ISO 2039-1
Tensile Strength at Break	150 MPa	21800 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
	6.0 %	6.0 %	conditioned; ISO 527-1/-2
Tensile Modulus	10.0 GPa	1450 ksi	conditioned; ISO 527-1/-2
	16.0 GPa	2320 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	9.50 J/cm <sup>2</sup>	45.2 ft-lb/in <sup>2</sup>	dry; ISO 179/1eU
	13.0 J/cm <sup>2</sup>	61.9 ft-lb/in <sup>2</sup>	conditioned; ISO 179/1eU
	9.00 J/cm <sup>2</sup> @Temperature 30.0 °C	42.8 ft-lb/in <sup>2</sup> @Temperature 86.0 °F	dry; ISO 179/1eU
Charpy Impact Unnotched	9.50 J/cm <sup>2</sup> @Temperature 30.0 °C	45.2 ft-lb/in <sup>2</sup> @Temperature 86.0 °F	conditioned; ISO 179/1eU
	1.50 J/cm <sup>2</sup>	7.14 ft-lb/in <sup>2</sup>	dry; ISO 179/1eA
Charpy Impact, Notched	2.50 J/cm <sup>2</sup>	11.9 ft-lb/in <sup>2</sup>	conditioned; ISO 179/1eA

Mechanical Properties	Metric 1.10 J/cm <sup>2</sup>	English 5.23 ft-lb/in <sup>2</sup>	Comments
	@Temperature 30.0 °C	@Temperature 86.0 °F	dry; ISO 179/1eU
	1.20 J/cm <sup>2</sup>	5.71 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	100 µm/m-°C	55.6 µin/in-°F	ISO 11359-1/-2
Melting Point	222 °C	432 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	100 - 120 °C	212 - 248 °F	long term; EMS
	180 °C	356 °F	short term; EMS
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °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+13 ohm-cm	1.00e+13 ohm-cm	conditioned; IEC 60093
	1.00e+14 ohm-cm	1.00e+14 ohm-cm	dry; IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Strength	38.0 kV/mm	965 kV/in	conditioned; IEC 60243-1
	41.0 kV/mm	1040 kV/in	dry; IEC 60243-1
Comparative Tracking Index	550 V	550 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Form	Granules	
Processing	Injection Molding	
Special Characteristics	High impact or impact modified	

**Contact Songhan Plastic Technology Co.,Ltd.**

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