

## EMS-Grivory Grivory® BG-30 FR PA6-GF30 FR

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% 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-BG-30-FR-PA6-GF30-FR.php](http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-BG-30-FR-PA6-GF30-FR.php)

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in <sup>3</sup>	ISO 1183
Water Absorption	7.0 %	7.0 %	ISO 62
Moisture Absorption	2.50 %	2.50 %	ISO 62
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	70.0 MPa	10200 psi	conditioned; ISO 2039-1
	165 MPa	23900 psi	dry; ISO 2039-1
Tensile Strength at Break	60.0 MPa	8700 psi	conditioned; ISO 527-1/-2
	100 MPa	14500 psi	dry; ISO 527-1/-2
Elongation at Break	6.0 %	6.0 %	dry; ISO 527-1/-2
	50 %	50 %	conditioned; ISO 527-1/-2
Tensile Modulus	4.50 GPa	653 ksi	conditioned; ISO 527-1/-2
	7.00 GPa	1020 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	5.00 J/cm <sup>2</sup>	23.8 ft-lb/in <sup>2</sup>	dry; ISO 179/1eU
	NB	NB	conditioned; ISO 179/1eU
	4.00 J/cm <sup>2</sup> @Temperature 30.0 °C	19.0 ft-lb/in <sup>2</sup> @Temperature 86.0 °F	conditioned; ISO 179/1eU
Charpy Impact, Notched	5.00 J/cm <sup>2</sup> @Temperature 30.0 °C	23.8 ft-lb/in <sup>2</sup> @Temperature 86.0 °F	dry; ISO 179/1eU
	0.600 J/cm <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	dry; ISO 179/1eA
	0.600 J/cm <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	conditioned; ISO 179/1eA

Mechanical Properties	Metric 0.400 J/cm <sup>2</sup>	English 1.90 ft-lb/in <sup>2</sup>	Comments
	@Temperature 30.0 °C	@Temperature 86.0 °F	dry; ISO 179/1eU
	0.400 J/cm <sup>2</sup>	1.90 ft-lb/in <sup>2</sup>	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	222 °C	432 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	80.0 - 110 °C	176 - 230 °F	long term; EMS
	160 °C	320 °F	short term; EMS
Deflection Temperature at 1.8 MPa (264 psi)	185 °C	365 °F	ISO 75-1/-2
Flammability, UL94	V-2	V-2	IEC 60695-11-10

Descriptive Properties	Value	Comments
Electricals & Electronics	Connectors	
	Electrical equipment	
	Energy distribution	
Form	Granules	
Processing	Injection Molding	
Special Characteristics	Flame retardant	

## Contact Songhan Plastic Technology Co.,Ltd.

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