

## EMS-Grivory Grivory® BG-50 FC PA6-GF50

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

### Material Notes:

Product description: Grilon BG-50 FC is a heat stabilized PA6 injection molding grade with 50% glass fibers. Grilon BG-50 FC has the following important properties: Short cycle times Excellent surface finish Easy flowing Easy processing Application examples are stressed functional parts for applications such as swing bars for packing containers and bath seats in the sanitary field. Information provided by EMS Grivory

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_EMS-Grivory-Grivory-BG-50-FC-PA6-GF50.php](http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-BG-50-FC-PA6-GF50.php)

Physical Properties	Metric	English	Comments
Density	1.58 g/cc	0.0571 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	0.0050 cm/cm	0.0050 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	155 MPa	22500 psi	conditioned; ISO 527-1/-2
	240 MPa	34800 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	11.5 GPa	1670 ksi	conditioned; ISO 527-1/-2
	17.2 GPa	2490 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	9.00 J/cm <sup>2</sup>	42.8 ft-lb/in <sup>2</sup>	dry; ISO 179/1eU
	9.50 J/cm <sup>2</sup>	45.2 ft-lb/in <sup>2</sup>	conditioned; ISO 179/1eU
	8.50 J/cm <sup>2</sup>	40.4 ft-lb/in <sup>2</sup>	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact Unnotched	9.00 J/cm <sup>2</sup>	42.8 ft-lb/in <sup>2</sup>	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	1.50 J/cm <sup>2</sup>	7.14 ft-lb/in <sup>2</sup>	dry; ISO 179/1eA
			conditioned; ISO 179/1eA

Mechanical Properties	2.50 J/cm <sup>2</sup> Metric	11.9 ft-lb/in <sup>2</sup> English	Comments
	1.10 J/cm <sup>2</sup> @Temperature 30.0 °C	5.23 ft-lb/in <sup>2</sup> @Temperature 86.0 °F	dry; ISO 179/1eU
	1.20 J/cm <sup>2</sup> @Temperature 30.0 °C	5.71 ft-lb/in <sup>2</sup> @Temperature 86.0 °F	conditioned; ISO 179/1eU

Thermal Properties	Metric	English	Comments
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
	200 °C	392 °F	short term; EMS
Deflection Temperature at 1.8 MPa (264 psi)	215 °C	419 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	180 °C	356 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10

Descriptive Properties	Value	Comments
Automotive	Interior	
	Powertrain and Chassis	
Electricals & Electronics	Connectors	
	Electrical appliances	
	Electrical equipment	
Form	Granules	
Industry & Consumer goods	Housewares	
	Mechanical Engineering	
	Sports & Leisure	
	Tools & Accessories	
Processing	Injection Molding	
Product Attributes	Improved flowability and demoulding	

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

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