

EMS-Grivory Grivory® BG-60 FC PA6-GF60

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 60% Glass Fiber Filled

Material Notes:

Product description: Grilon BG-60 FC is a heat stabilized PA6 injection molding grade with 60% glass fibers. Grilon BG-60 FC has the following important properties: Short cycle timesExcellent surface finishEasy flowingEasy processing Application examples are stressed functional parts in automotive engine compartment and housings for electro /electronic industry.Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-BG-60-FC-PA6-GF60.php

Physical Properties	Metric	English	Comments
Density	1.69 g/cc	0.0611 lb/in ³	ISO 1183
Water Absorption	4.2 %	4.2 %	ISO 62
Moisture Absorption	1.10 %	1.10 %	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	156 MPa	22600 psi	conditioned; ISO 2039-1
	273 MPa	39600 psi	dry; ISO 2039-1
Tensile Strength at Break	160 MPa	23200 psi	conditioned; ISO 527-1/-2
	245 MPa	35500 psi	dry; ISO 527-1/-2
Elongation at Break	3.2 %	3.2 %	dry; ISO 527-1/-2
	3.4 %	3.4 %	conditioned; ISO 527-1/-2
Tensile Modulus	13.5 GPa	1960 ksi	conditioned; ISO 527-1/-2
	19.0 GPa	2760 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	9.10 J/cm ²	43.3 ft-lb/in ²	dry; ISO 179/1eU
	9.60 J/cm ²	45.7 ft-lb/in ²	conditioned; ISO 179/1eU
	9.00 J/cm ²	42.8 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	9.00 J/cm ²	42.8 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Charpy Impact, Notched Mechanical Properties	1.60 J/cm ² Metric	7.61 ft-lb/in ² English	dry; ISO 179/1eA Comments
	2.60 J/cm ²	12.4 ft-lb/in ²	conditioned; ISO 179/1eA
	1.10 J/cm ² @Temperature 30.0 °C	5.23 ft-lb/in ² @Temperature 86.0 °F	dry; ISO 179/1eU
	1.20 J/cm ² @Temperature 30.0 °C	5.71 ft-lb/in ² @Temperature 86.0 °F	conditioned; ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	14.0 µm/m-°C	7.78 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	223 °C	433 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	130 - 150 °C	266 - 302 °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	190 °C	374 °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	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	33.0 kV/mm	838 kV/in	conditioned; IEC 60243-1
	36.0 kV/mm	914 kV/in	dry; IEC 60243-1
Comparative Tracking Index	475 V	475 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Interior	
	Powertrain and Chassis	
Electricals & Electronics	Connectors	
	Electrical appliances	

Descriptive Properties	Value	Comments
Form	Granules	
Industry & Consumer goods	Housewares	
	Mechanical Engineering	
	Sports & Leisure	
	Tools & Accessories	
Processing	Injection Molding	
Product Attributes	Improved flowability and demoulding	

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