

EMS-Grivory Grivory® BG-50 PA6-GF50

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

Material Notes:

Product description: Grilon BG-50 is a heat stabilized, normal viscosity PA6 injection molding grade with 50% glass fibers. Grilon BG-50 has the following important properties: High stiffness Good surface finish Easy flowing Application examples are stressed functional parts for mechanical engineering and automotive applications such as levers and handles. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-BG-50-PA6-GF50.php

Physical Properties	Metric	English	Comments
Density	1.58 g/cc	0.0571 lb/in ³	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
Ball Indentation Hardness	150 MPa	21800 psi	conditioned; ISO 2039-1
	265 MPa	38400 psi	dry; ISO 2039-1
Tensile Strength at Break	140 MPa	20300 psi	conditioned; ISO 527-1/-2
	215 MPa	31200 psi	dry; ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	dry; ISO 527-1/-2
	4.5 %	4.5 %	conditioned; ISO 527-1/-2
Tensile Modulus	10.5 GPa	1520 ksi	conditioned; ISO 527-1/-2
	16.5 GPa	2390 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	8.50 J/cm ²	40.4 ft-lb/in ²	dry; ISO 179/1eU
	9.00 J/cm ²	42.8 ft-lb/in ²	conditioned; ISO 179/1eU
	7.50 J/cm ²	35.7 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	8.00 J/cm ²	38.1 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Charpy Impact, Notched Mechanical Properties	1.40 J/cm² Metric	6.66 ft-lb/in² English	dry; ISO 179/1eA Comments
	2.00 J/cm²	9.52 ft-lb/in²	conditioned; ISO 179/1eA
	1.00 J/cm² @Temperature 30.0 °C	4.76 ft-lb/in² @Temperature 86.0 °F	dry; ISO 179/1eU
	1.20 J/cm² @Temperature 30.0 °C	5.71 ft-lb/in² @Temperature 86.0 °F	conditioned; ISO 179/1eU

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	90.0 - 120 °C	194 - 248 °F	long term; EMS
	160 °C	320 °F	short term; EMS
Deflection Temperature at 1.8 MPa (264 psi)	205 °C	401 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	170 °C	338 °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	31.0 kV/mm	787 kV/in	conditioned; IEC 60243-1
	34.0 kV/mm	864 kV/in	dry; IEC 60243-1
Comparative Tracking Index	575 V	575 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Interior	
Electricals & Electronics	Electrical appliances	
	Electrical equipment	
Form	Granules	

Descriptive Properties	Value on Molding	Comments
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