

EMS-Grivory Grivory® BG-40 S PA6-GF40

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 40% Glass Fiber Filled

Material Notes:

Product description: Grilon BG-40 S is a normal viscosity PA 6 injection molding type with 40% glass fibers. Grilon BG-40 S has the following important properties: High stiffnessExcellent surface finishEasy flowingEasy processingApplication examples are stressed functional parts for automotive applications and housings for electro power tools.Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-BG-40-S-PA6-GF40.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in ³	ISO 1183
Water Absorption	7.0 %	7.0 %	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	0.0070 cm/cm	0.0070 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
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
	5.0 %	5.0 %	conditioned; ISO 527-1/-2
Tensile Modulus	8.50 GPa	1230 ksi	conditioned; ISO 527-1/-2
	11.6 GPa	1680 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	7.50 J/cm ²	35.7 ft-lb/in ²	dry; ISO 179/1eU
	8.00 J/cm ²	38.1 ft-lb/in ²	conditioned; ISO 179/1eU
	7.00 J/cm ²	33.3 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	7.50 J/cm ²	35.7 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	dry; ISO 179/1eA
	2.00 J/cm ²	9.52 ft-lb/in ²	conditioned; ISO 179/1eA

Mechanical Properties	0.900 J/cm ² Metric	4.28 ft-lb/in ² English	Comments
	@Temperature 30.0 °C	@Temperature 86.0 °F	ISO 11359-1/-2

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 µm/m-°C	11.1 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	90.0 µm/m-°C	50.0 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	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	35.0 kV/mm	889 kV/in	conditioned; IEC 60243-1
	37.0 kV/mm	940 kV/in	dry; IEC 60243-1
Comparative Tracking Index	550 V	550 V	conditioned; IEC 60112

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

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