

EMS-Grivory Grivory® BGZ-30/2 PA6-GF30

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Glass Fiber Filled

Material Notes:

Product description: Grilon BGZ-30/2 is a heat stabilized and impact modified PA6 injection molding grade with 30% glass fibers. Grilon BGZ-30/2 has the following important properties: Good impact strength High stiffness Easy processing Application examples are structural components for furniture applications, housings for electro power tools, ski bindings for the sports industry, and functional parts for automotive applications. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-BGZ-302-PA6-GF30.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ISO 1183
Water Absorption	7.0 %	7.0 %	ISO 62
Moisture Absorption	2.00 %	2.00 %	ISO 62
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	85.0 MPa	12300 psi	conditioned; ISO 2039-1
	170 MPa	24700 psi	dry; ISO 2039-1
Tensile Strength at Break	105 MPa	15200 psi	conditioned; ISO 527-1/-2
	150 MPa	21800 psi	dry; ISO 527-1/-2
Elongation at Break	4.0 %	4.0 %	dry; ISO 527-1/-2
	8.0 %	8.0 %	conditioned; ISO 527-1/-2
Tensile Modulus	5.50 GPa	798 ksi	conditioned; ISO 527-1/-2
	8.50 GPa	1230 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	8.00 J/cm ²	38.1 ft-lb/in ²	dry; ISO 179/1eU
	9.50 J/cm ²	45.2 ft-lb/in ²	conditioned; ISO 179/1eU
	8.00 J/cm ² @Temperature 30.0 °C	38.1 ft-lb/in ² @Temperature 86.0 °F	dry; ISO 179/1eU
	8.50 J/cm ²	40.4 ft-lb/in ²	conditioned; ISO 179/1eU

Mechanical Properties	@Temperature 30.0 °C Metric	@Temperature 86.0 °F English	Comments
Charpy Impact, Notched	1.50 J/cm ²	7.14 ft-lb/in ²	dry; ISO 179/1eA
	2.50 J/cm ²	11.9 ft-lb/in ²	conditioned; ISO 179/1eA
	1.10 J/cm ²	5.23 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	1.20 J/cm ²	5.71 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

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	120 µm/m-°C	66.7 µin/in-°F	ISO 11359-1/-2
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
	180 °C	356 °F	short term; EMS
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	85.0 °C	185 °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	37.0 kV/mm	940 kV/in	conditioned; IEC 60243-1
	41.0 kV/mm	1040 kV/in	dry; IEC 60243-1
Comparative Tracking Index	550 V	550 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Form	Granules	
Processing	Injection Molding	
Special Characteristics	High impact or impact modified	

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