

EMS-Grivory Grivory® BGM-40 X PA6-(GF+MD)40

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Glass/Mineral Reinforced

Material Notes:

Product description: Grilon BGM-40 X is a heat stabilized PA 6 injection molding grade with a 40 % reinforcement combination (mineral and glass fiber). Grilon BGM-40 X has the following important properties: High stiffness Low warpage Good surface finish Grilon BGM-40 X is used typically for large area parts with low warpage such as radiator grilles or relais bearers. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-BGM-40-X-PA6-GFMD40.php

Physical Properties	Metric	English	Comments
Density	1.44 g/cc	0.0520 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	0.0020 cm/cm	0.0020 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
Tensile Strength at Break	55.0 MPa	7980 psi	conditioned; ISO 527-1/-2
	120 MPa	17400 psi	dry; ISO 527-1/-2
Elongation at Break	2.5 %	2.5 %	dry; ISO 527-1/-2
	6.0 %	6.0 %	conditioned; ISO 527-1/-2
Tensile Modulus	5.00 GPa	725 ksi	conditioned; ISO 527-1/-2
	10.0 GPa	1450 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	4.00 J/cm ²	19.0 ft-lb/in ²	dry; ISO 179/1eU
	5.00 J/cm ²	23.8 ft-lb/in ²	conditioned; ISO 179/1eU
	3.50 J/cm ² @Temperature 30.0 °C	16.7 ft-lb/in ² @Temperature 86.0 °F	dry; ISO 179/1eU
Charpy Impact, Notched	4.50 J/cm ² @Temperature 30.0 °C	21.4 ft-lb/in ² @Temperature 86.0 °F	conditioned; ISO 179/1eU
	0.500 J/cm ²	2.38 ft-lb/in ²	dry; ISO 179/1eA
	0.700 J/cm ²	3.33 ft-lb/in ²	conditioned; ISO 179/1eA

Mechanical Properties	0.300 J/cm ² Metric	1.43 ft-lb/in ² English	Comments
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	0.300 J/cm ²	1.43 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	30.0 µm/m-°C	16.7 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	80.0 µm/m-°C	44.4 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)	195 °C	383 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	90.0 °C	194 °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	32.0 kV/mm	813 kV/in	conditioned; IEC 60243-1
	35.0 kV/mm	889 kV/in	dry; IEC 60243-1
Comparative Tracking Index	525 V	525 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Cooling and climate control	
Form	Granules	
Processing	Injection Molding	

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