

EMS-Grivory Grivory® BGM-65 X V0 PA6-(GF+MD)65

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

Material Notes:

Product description: Grilon BGM-65 X V0 is a flame retardant mineral and glass fiber reinforced PA6 injection molding grade. Grilon BGM-65 X V0 has the following important properties: Halogen and phosphorous-free Low smoke density UL94 V-0 at 1.5 mm wall thickness Exceptional high oxygen index High stiffness Grilon BGM-65 X V0 is typically used for electrical applications such as switches, plugs, lamp parts, coil former bobbins, and protective housings. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-BGM-65-X-V0-PA6-GFMD65.php

Physical Properties	Metric	English	Comments
Density	1.69 g/cc	0.0611 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	0.0020 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	90.0 MPa	13100 psi	conditioned; ISO 527-1/-2
	120 MPa	17400 psi	dry; ISO 527-1/-2
Elongation at Break	1.0 %	1.0 %	dry; ISO 527-1/-2
	3.0 %	3.0 %	conditioned; ISO 527-1/-2
Tensile Modulus	7.10 GPa	1030 ksi	conditioned; ISO 527-1/-2
	11.5 GPa	1670 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	2.50 J/cm ²	11.9 ft-lb/in ²	dry; ISO 179/1eU
	2.50 J/cm ²	11.9 ft-lb/in ²	conditioned; ISO 179/1eU
	1.50 J/cm ²	7.14 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	1.50 J/cm ²	7.14 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	0.300 J/cm ²	1.43 ft-lb/in ²	dry; ISO 179/1eA
			conditioned; ISO 179/1eA

Mechanical Properties	0.300 J/cm ² Metric	1.43 ft-lb/in ² English	Comments
	0.300 J/cm ²	1.43 ft-lb/in ²	dry; ISO 179/1eU
	@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	60.0 µm/m-°C	33.3 µin/in-°F	ISO 11359-1/-2
Melting Point	222 °C	432 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	80.0 - 110 °C	176 - 230 °F	long term; EMS
	160 °C	320 °F	short term; EMS
Deflection Temperature at 0.46 MPa (66 psi)	75.0 °C	167 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	160 °C	320 °F	ISO 75-1/-2
Flammability, UL94	V-0	V-0	IEC 60695-11-10
	V-0	V-0	IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Oxygen Index	65 %	65 %	ISO 4589-1/-2

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 Constant	3.0	3.0	dry; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	3.0	3.0	conditioned; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	29.0 kV/mm	737 kV/in	conditioned; IEC 60243-1
	33.0 kV/mm	838 kV/in	dry; IEC 60243-1
Comparative Tracking Index	500 V	500 V	conditioned; IEC 60112

Electrical Properties	Metric	English	Comments
Descriptive Properties	Value		Comments
Automotive	Automotive electr. and electronics, lighting		
Electricals & Electronics	Connectors		
	Electrical appliances		
	Electrical equipment		
	Energy distribution		
	Lighting		
Form	Granules		
Processing	Injection Molding		
Special Characteristics	Flame retardant		

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