

EMS-Grivory Grivory® BG-25 HM PA6-GF25

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

Material Notes:

Product description: Grilon BG-25 HM is a heat stabilized, normal viscosity, and adhesion modified PA6 injection molding grade with 25% glass fibers. Grilon BG-25 HM has the following important properties: Excellent adhesion with thermoplastic elastomers High stiffness Good impact strength Application examples are automotive plugs and seals, counter wheel sensors, housings with integrated switch membranes, housings (hard soft combinations), grip handles, and plug housings. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-BG-25-HM-PA6-GF25.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 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	0.0040 cm/cm	0.0040 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	90.0 MPa	13100 psi	conditioned; ISO 2039-1
	130 MPa	18900 psi	dry; ISO 2039-1
Tensile Strength at Break	90.0 MPa	13100 psi	conditioned; ISO 527-1/-2
	110 MPa	16000 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	5.20 GPa	754 ksi	conditioned; ISO 527-1/-2
	6.90 GPa	1000 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	4.00 J/cm ²	19.0 ft-lb/in ²	dry; ISO 179/1eU
	4.50 J/cm ²	21.4 ft-lb/in ²	conditioned; ISO 179/1eU
	3.50 J/cm ²	16.7 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	3.50 J/cm ²	16.7 ft-lb/in ²	conditioned; ISO 179/1eU

Mechanical Properties	@Temperature 30.0 °C Metric	@Temperature 86.0 °F English	Comments
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	dry; ISO 179/1eA
	1.20 J/cm ²	5.71 ft-lb/in ²	conditioned; ISO 179/1eA
	0.900 J/cm ²	4.28 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	0.900 J/cm ²	4.28 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	25.0 µm/m-°C	13.9 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	150 µm/m-°C	83.3 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 1.8 MPa (264 psi)	155 °C	311 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	70.0 °C	158 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+11 ohm-cm	1.00e+11 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	34.0 kV/mm	864 kV/in	conditioned; IEC 60243-1
	40.0 kV/mm	1020 kV/in	dry; IEC 60243-1
Comparative Tracking Index	600 V	600 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Air intake systems	
	Interior	
Electricals & Electronics	Electrical appliances	

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

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