

EMS-Grivory Grivory® BK-50 PA6-GB50

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Glass Bead Filled

Material Notes:

Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-BK-50-PA6-GB50.php

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 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	0.0070 cm/cm	0.0070 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	45.0 MPa	6530 psi	dry; ISO 527-1/-2
	95.0 MPa	13800 psi	dry; ISO 527-1/-2
Elongation at Break	8.0 %	8.0 %	dry; ISO 527-1/-2
	25 %	25 %	conditioned; ISO 527-1/-2
Elongation at Yield	4.0 %	4.0 %	dry; ISO 527-1/-2
	8.0 %	8.0 %	conditioned; ISO 527-1/-2
Tensile Modulus	1.70 GPa	247 ksi	conditioned; ISO 527-1/-2
	6.10 GPa	885 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	6.00 J/cm ²	28.6 ft-lb/in ²	dry; 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	0.400 J/cm ²	1.90 ft-lb/in ²	dry; ISO 179/1eA
	0.400 J/cm ²	1.90 ft-lb/in ²	conditioned; ISO 179/1eA
	0.300 J/cm ² @Temperature 30.0 °C	1.43 ft-lb/in ² @Temperature 86.0 °F	dry; ISO 179/1eU
	0.300 J/cm ²	1.43 ft-lb/in ²	

Mechanical Properties	Metric @ Temperature 30.0 °C	English @ Temperature 86.0 °F	conditioned; ISO 179/1eU Comments
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Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 µm/m-°C	38.9 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	70.0 µm/m-°C	38.9 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)	95.0 °C	203 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	45.0 °C	113 °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+13 ohm-cm	1.00e+13 ohm-cm	dry; IEC 60093
Surface Resistance	1.00e+10 ohm	1.00e+10 ohm	IEC 60093
Dielectric Strength	29.0 kV/mm	737 kV/in	conditioned; IEC 60243-1
	36.0 kV/mm	914 kV/in	dry; IEC 60243-1
Comparative Tracking Index	450 V	450 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Interior	
Electricals & Electronics	Electrical appliances	
Form	Granules	
Industry & Consumer goods	Housewares	
	Sports & Leisure	
	Tools & Accessories	
Processing	Injection Molding	

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