

EMS-Grivory Grivory® BG-35 S PA6-GF35

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 40% Glass Fiber Filled

Material Notes:

Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-BG-35-S-PA6-GF35.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 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	0.0080 cm/cm	0.0080 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	115 MPa	16700 psi	conditioned; ISO 2039-1
	225 MPa	32600 psi	dry; ISO 2039-1
Tensile Strength at Break	135 MPa	19600 psi	conditioned; ISO 527-1/-2
	200 MPa	29000 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	7.00 GPa	1020 ksi	conditioned; ISO 527-1/-2
	11.0 GPa	1600 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	8.50 J/cm ²	40.4 ft-lb/in ²	dry; ISO 179/1eU
	9.00 J/cm ²	42.8 ft-lb/in ²	conditioned; ISO 179/1eU
	7.50 J/cm ²	35.7 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	7.50 J/cm ²	35.7 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	dry; ISO 179/1eA
	2.00 J/cm ²	9.52 ft-lb/in ²	conditioned; ISO 179/1eA

Mechanical Properties	Metric 0.900 J/cm²	English 4.24 ft-lb/in²	Comments
	@Temperature 30.0 °C	@Temperature 86.0 °F	dry; ISO 179/1eU
	1.00 J/cm²	4.76 ft-lb/in²	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	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	90.0 - 110 °C	194 - 230 °F	long term; EMS
	160 °C	320 °F	short term; EMS
Deflection Temperature at 1.8 MPa (264 psi)	205 °C	401 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	165 °C	329 °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	33.0 kV/mm	838 kV/in	conditioned; IEC 60243-1
	35.0 kV/mm	889 kV/in	dry; IEC 60243-1
Comparative Tracking Index	500 V	500 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Air intake sytems	
	Interior	
Electricals & Electronics	Electrical appliances	
	Electrical equipment	
Form	Granules	

Processing Descriptive Properties	Injection Molding Value	Comments
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Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China