

EMS-Grivory Grivory® BG-35 PA6-GF35

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

Material Notes:

Product description: Grilon BG-35 is a heat stabilized PA6 injection molding grade with 35% glass fibers. Grilon BG-35 has the following important properties: High stiffness Good surface finish Easy processing Application examples are stressed functional parts in automotive applications under the bonnet, such as air ducts, air intake manifolds or housings for fuse boxes. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-BG-35-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	0.0070 cm/cm	0.0070 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	110 MPa	16000 psi	conditioned; ISO 2039-1
	240 MPa	34800 psi	dry; ISO 2039-1
Tensile Strength at Break	145 MPa	21000 psi	conditioned; ISO 527-1/-2
	225 MPa	32600 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	6.90 GPa	1000 ksi	conditioned; ISO 527-1/-2
	11.5 GPa	1670 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	7.00 J/cm ²	33.3 ft-lb/in ²	dry; ISO 179/1eU
	7.50 J/cm ²	35.7 ft-lb/in ²	conditioned; ISO 179/1eU
	6.50 J/cm ²	30.9 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	7.00 J/cm ²	33.3 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Charpy Impact, Notched Mechanical Properties	1.10 J/cm ² Metric	9.23 ft-lb/in ² English	dry; ISO 179/1eA Comments
	2.00 J/cm ²	9.52 ft-lb/in ²	conditioned; ISO 179/1eA
	0.800 J/cm ² @Temperature 30.0 °C	3.81 ft-lb/in ² @Temperature 86.0 °F	dry; ISO 179/1eU
	0.900 J/cm ² @Temperature 30.0 °C	4.28 ft-lb/in ² @Temperature 86.0 °F	conditioned; ISO 179/1eU

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	100 - 120 °C	212 - 248 °F	long term; EMS
	200 °C	392 °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+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	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 systems	
	Interior	
Electricals & Electronics	Electrical appliances	
	Electrical equipment	

Descriptive Properties	Valueles	Comments
Processing	Injection Molding	

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