EMS-Grivory Grivory® BG-15 PA6-GF15

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 20% Glass Fiber Filled

Material Notes:

Product description: Grilon BG-15 is a heat stabilized PA 6 injection molding grade with 15% glass fiber reinforcement. Grilon BG-15 has the following important properties: Good surface finishGood balance between strength and toughnessEasy flowing Application examples are automotive applications such as handles and levers and fixing parts in the electronic field.Information provided by EMS Grivory

Order this product through the following link:
http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-BG-15-PA6-GF15.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in³	ISO 1183
Water Absorption	8.0 %	8.0 %	ISO 62
Moisture Absorption	2.50 %	2.50 %	ISO 62
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 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
Ball Indentation Hardness	80.0 MPa	11600 psi	conditioned; ISO 2039-1
	170 MPa	24700 psi	dry; ISO 2039-1
Tensile Strength at Break	140 MPa	20300 psi	dry; ISO 527-1/-2
Tensile Strength, Yield	80.0 MPa	11600 psi	conditioned; ISO 527-1/-2
Elongation at Break	4.0 %	4.0 %	dry; ISO 527-1/-2
	15 %	15 %	conditioned; ISO 527-1/-2
Elongation at Yield	5.0 %	5.0 %	conditioned; ISO 527-1/-2
Tensile Modulus	3.40 GPa	493 ksi	conditioned; ISO 527-1/-2
	6.70 GPa	972 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	4.50 J/cm²	21.4 ft-lb/in²	dry; ISO 179/1eU
	8.50 J/cm²	40.4 ft-lb/in²	conditioned; ISO 179/1eU
	4.00 J/cm² @Temperature 30.0 °C	19.0 ft-lb/in² @Temperature 86.0 °F	dry; ISO 179/1eU
	4.50 J/cm²	21.4 ft-lb/in²	conditioned; ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	0.500 J/cm²	2.38 ft-lb/in²	dry; ISO 179/1eA
	1.00 J/cm²	4.76 ft-lb/in²	conditioned; ISO 179/1eA
	0.400 J/cm² @Temperature 30.0 °C	1.90 ft-lb/in² @Temperature 86.0 °F	dry; ISO 179/1eU
	0.500 J/cm² @Temperature 30.0 °C	2.38 ft-lb/in² @Temperature 86.0 °F	conditioned; ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	50.0 µm/m-°C	27.8 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	120 µm/m-°C	66.7 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)	195 °C	383 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	60.0 °C	140 °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	37.0 kV/mm	940 kV/in	conditioned; IEC 60243-1
	40.0 kV/mm	1020 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	

Descriptive Properties	Value	Comments
Form	Granules	
Processing	Injection Molding	

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