

EMS-Grivory Grivory® BG-30 S PA6-GF30

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

Material Notes:

Product description: Grilon BG-30 S is a heat stabilized PA6 injection molding grade with 30% glass fibers. Grilon BG-30 S has the following important properties: Excellent surface finish Easy flowing Easy processing Application examples are power tool housings, seat levers, car electronics, and insulators. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-BG-30-S-PA6-GF30.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 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	100 MPa	14500 psi	conditioned; ISO 2039-1
	210 MPa	30500 psi	dry; ISO 2039-1
Tensile Strength at Break	125 MPa	18100 psi	conditioned; ISO 527-1/-2
	185 MPa	26800 psi	dry; ISO 527-1/-2
Elongation at Break	5.0 %	5.0 %	dry; ISO 527-1/-2
	10 %	10 %	conditioned; ISO 527-1/-2
Tensile Modulus	6.00 GPa	870 ksi	conditioned; ISO 527-1/-2
	9.50 GPa	1380 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	7.50 J/cm ²	35.7 ft-lb/in ²	dry; ISO 179/1eU
	9.00 J/cm ²	42.8 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	20.0 µm/m-°C	11.1 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	110 µm/m-°C	61.1 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	135 °C	275 °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 systems	
	Interior	
Electricals & Electronics	Electrical appliances	
	Electrical equipment	

Descriptive Properties	Valueles	Comments
Processing	Injection Molding	
Water Contact	DVGW W270	

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