EMS-Grivory Grivory® TSG-30/4 H black 9836 PA666-GF30

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/6, 30% Glass Fiber Reinforced

Material Notes:

Information provided by EMS Grivory

Order this product through the following link:
http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-TSG-304-H-black-9836-PA666-GF30.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in³	ISO 1183
Water Absorption	4.5 %	4.5 %	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	0.0060 cm/cm	0.0060 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	150 MPa	21800 psi	conditioned; ISO 2039-1
	205 MPa	29700 psi	dry; ISO 2039-1
Tensile Strength at Break	100 MPa	14500 psi	conditioned; ISO 527-1/-2
	180 MPa	26100 psi	dry; ISO 527-1/-2
Tensile Strength, Yield	110 MPa	16000 psi	conditioned; ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	dry; ISO 527-1/-2
	8.0 %	8.0 %	conditioned; ISO 527-1/-2
Elongation at Yield	4.0 %	4.0 %	conditioned; ISO 527-1/-2
Tensile Modulus	6.20 GPa	899 ksi	conditioned; ISO 527-1/-2
	10.0 GPa	1450 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	7.50 J/cm²	35.7 ft-lb/in²	dry; ISO 179/1eU
	8.00 J/cm²	38.1 ft-lb/in²	conditioned; ISO 179/1eU
	6.00 J/cm² @Temperature 30.0 °C	28.6 ft-lb/in² @Temperature 86.0 °F	conditioned; ISO 179/1eU
	6.50 J/cm² @Temperature 30.0 °C	30.9 ft-lb/in² @Temperature 86.0 °F	dry; ISO 179/1eU

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	1.00 J/cm²	4.76 ft-lb/in²	dry; ISO 179/1eA
	1.20 J/cm²	5.71 ft-lb/in²	conditioned; ISO 179/1eA
	0.600 J/cm² @Temperature 30.0 °C	2.86 ft-lb/in² @Temperature 86.0 °F	conditioned; ISO 179/1eU
	0.800 J/cm² @Temperature 30.0 °C	3.81 ft-lb/in² @Temperature 86.0 °F	dry; 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	70.0 µm/m-°C	38.9 µin/in-°F	ISO 11359-1/-2
Melting Point	260 °C	500 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	100 - 130 °C	212 - 266 °F	long term; EMS
	200 °C	392 °F	short term; EMS
Deflection Temperature at 1.8 MPa (264 psi)	235 °C	455 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	130 °C	266 °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	21.0 kV/mm	533 kV/in	conditioned; IEC 60243-1
	25.0 kV/mm	635 kV/in	dry; IEC 60243-1
Comparative Tracking Index	475 V	475 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Cooling and climate control	
Form	Granules	
Industry & Consumer goods	Heating systems	

Processing	Injection Molding	
Descriptive Properties	Value	Comments
Product Attributes	High viscosity	
Special Characteristics	Improved heat resistance	

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