

EMS-Grivory Grivory® TSG-50 FA PA666-GF50

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/6 , 40% 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-50-FA-PA666-GF50.php

Physical Properties	Metric	English	Comments
Density	1.56 g/cc	0.0564 lb/in ³	ISO 1183
Water Absorption	6.0 %	6.0 %	ISO 62
Moisture Absorption	1.50 %	1.50 %	ISO 62
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0030 cm/cm	0.0030 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	160 MPa	23200 psi	conditioned; ISO 2039-1
	270 MPa	39200 psi	dry; ISO 2039-1
Tensile Strength at Break	150 MPa	21800 psi	conditioned; ISO 527-1/-2
	240 MPa	34800 psi	dry; ISO 527-1/-2
Tensile Strength, Yield	150 MPa	21800 psi	conditioned; 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
Elongation at Yield	5.0 %	5.0 %	conditioned; ISO 527-1/-2
Tensile Modulus	10.0 GPa	1450 ksi	conditioned; ISO 527-1/-2
	16.5 GPa	2390 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	9.00 J/cm ²	42.8 ft-lb/in ²	dry; ISO 179/1eU
	10.0 J/cm ²	47.6 ft-lb/in ²	conditioned; ISO 179/1eU
	8.00 J/cm ²	38.1 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	9.00 J/cm ²	42.8 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	1.50 J/cm ²	7.24 ft-lb/in ²	dry; ISO 179/1eA
	2.00 J/cm ²	9.52 ft-lb/in ²	conditioned; ISO 179/1eA
	1.10 J/cm ²	5.23 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	1.20 J/cm ²	5.71 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	15.0 µm/m-°C	8.33 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	100 µm/m-°C	55.6 µin/in-°F	ISO 11359-1/-2
Melting Point	260 °C	500 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	90.0 - 120 °C	194 - 248 °F	long term; EMS
	180 °C	356 °F	short term; EMS
Deflection Temperature at 1.8 MPa (264 psi)	220 °C	428 °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+11 ohm-cm	1.00e+11 ohm-cm	conditioned; IEC 60093
	1.00e+13 ohm-cm	1.00e+13 ohm-cm	dry; IEC 60093
Surface Resistance	1.00e+10 ohm	1.00e+10 ohm	IEC 60093
Dielectric Strength	31.0 kV/mm	787 kV/in	dry; IEC 60243-1
	31.0 kV/mm	787 kV/in	conditioned; IEC 60243-1
Comparative Tracking Index	600 V	600 V	dry; IEC 60112
	600 V	600 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Food contact	EU Requirements	
	FDA	

Form Descriptive Properties	Granules Value	Comments
Industry & Consumer goods	Housewares	
	Sports & Leisure	
Packaging	Medical packaging	
Processing	Injection Molding	

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