

EMS-Grivory Grivory® TSGZ-25/4 PA666-GF25

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-TSGZ-254-PA666-GF25.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in ³	ISO 1183
Water Absorption	6.0 %	6.0 %	ISO 62
Moisture Absorption	2.00 %	2.00 %	ISO 62
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 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	96.0 MPa	13900 psi	conditioned; ISO 2039-1
	206 MPa	29900 psi	dry; ISO 2039-1
Tensile Strength at Break	90.0 MPa	13100 psi	conditioned; ISO 527-1/-2
	155 MPa	22500 psi	dry; ISO 527-1/-2
Elongation at Break	3.7 %	3.7 %	dry; ISO 527-1/-2
	7.4 %	7.4 %	conditioned; ISO 527-1/-2
Tensile Modulus	4.60 GPa	667 ksi	conditioned; ISO 527-1/-2
	7.90 GPa	1150 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	8.00 J/cm ²	38.1 ft-lb/in ²	conditioned; ISO 179/1eU
	10.0 J/cm ²	47.6 ft-lb/in ²	dry; ISO 179/1eU
	7.30 J/cm ² @Temperature 30.0 °C	34.7 ft-lb/in ² @Temperature 86.0 °F	conditioned; ISO 179/1eU
Charpy Impact, Notched	1.40 J/cm ²	6.66 ft-lb/in ²	dry; ISO 179/1eA
	2.00 J/cm ²	9.52 ft-lb/in ²	conditioned; ISO 179/1eA
	0.900 J/cm ² @Temperature 30.0 °C	4.28 ft-lb/in ² @Temperature 86.0 °F	conditioned; ISO 179/1eU

Mechanical Properties	Metric 1.00 J/cm ²	English 3.75 ft-lb/in ²	Comments
	@Temperature 30.0 °C	@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	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)	225 °C	437 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	85.0 °C	185 °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+11 ohm	1.00e+11 ohm	IEC 60093
Dielectric Strength	30.0 kV/mm	762 kV/in	conditioned; IEC 60243-1
	35.0 kV/mm	889 kV/in	dry; IEC 60243-1
Comparative Tracking Index	600 V	600 V	dry; IEC 60112
	600 V	600 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Interior	
	Powertrain and Chassis	
Electricals & Electronics	Connectors	
	Electrical appliances	
Form	Granules	
Industry & Consumer goods	Housewares	

Descriptive Properties	Mechanical Engineering Value	Comments
	Power transmission	
	Sports & Leisure	
	Tools & Accessories	
Processing	Injection Molding	
Special Characteristics	High impact or impact modified	

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