

EMS-Grivory Grivory® TSGL-40/4 nat PA666-GF40

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/6 , 40% Glass Fiber Reinforced

Material Notes:

Product description: Grilon TSGL-40/4 natural is based on a heat stabilized semi-crystalline Polyamide PA66+PA6 and 40% long glass fibers. Grilon TSGL-40/4 natural is characterized by the following key-properties: high stiffness and strength even after conditioning and over a wide temperature range excellent notched impact resistance also at low temperatures low creep high heat distortion temperatures good dimensional stability and little warpage good surface appearance and ease of processing The product has been designed for injection molding of technical parts especially in the area of die-cast metal replacement. Grilon TSGL-40/4 natural is used in the following market segments: automotive mechanical engineering household and appliances The glass-fibers are aligned in parallel and are just as long as the pellets (usually 10 mm). Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-TSGL-404-nat-PA666-GF40.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	ISO 1183
Water Absorption	5.0 %	5.0 %	ISO 62
Moisture Absorption	1.80 %	1.80 %	ISO 62
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0040 cm/cm	0.0040 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	180 MPa	26100 psi	conditioned; ISO 2039-1
	275 MPa	39900 psi	dry; ISO 2039-1
Tensile Strength at Break	165 MPa	23900 psi	conditioned; ISO 527-1/-2
	230 MPa	33400 psi	dry; ISO 527-1/-2
Elongation at Break	2.5 %	2.5 %	dry; ISO 527-1/-2
	2.8 %	2.8 %	conditioned; ISO 527-1/-2
Tensile Modulus	9.50 GPa	1380 ksi	conditioned; ISO 527-1/-2
	13.0 GPa	1890 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	8.00 J/cm ²	38.1 ft-lb/in ²	dry; ISO 179/1eU
	8.50 J/cm ²	40.4 ft-lb/in ²	conditioned; ISO 179/1eU
	6.00 J/cm ²	28.6 ft-lb/in ²	conditioned; ISO 179/1eU

Mechanical Properties	@Temperature 30.0 °C Metric	@Temperature 86.0 °F English	Comments
	6.50 J/cm ²	30.9 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	3.00 J/cm ²	14.3 ft-lb/in ²	dry; ISO 179/1eA
	3.50 J/cm ²	16.7 ft-lb/in ²	conditioned; ISO 179/1eA
	3.00 J/cm ²	14.3 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	3.50 J/cm ²	16.7 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	20.0 µm/m-°C	11.1 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	60.0 µm/m-°C	33.3 µin/in-°F	ISO 11359-1/-2
Melting Point	260 °C	500 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	120 - 130 °C	248 - 266 °F	long term; EMS
	220 °C	428 °F	short term; EMS
Deflection Temperature at 1.8 MPa (264 psi)	250 °C	482 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	220 °C	428 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	conditioned; IEC 60093
	1.00e+13 ohm-cm	1.00e+13 ohm-cm	dry; IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Strength	24.0 kV/mm	610 kV/in	conditioned; IEC 60243-1
	29.0 kV/mm	737 kV/in	dry; IEC 60243-1
Comparative Tracking Index	600 V	600 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Form	Granules	

Product Attributes Descriptive Properties	Long Fiber Reinforced Value	Comments
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