EMS-Grivory Grivory® TSGL-40/4 black 9833 PA666-GF40

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

Material Notes:

Product description: Grilon TSGL-40/4 black is based on a heat stabilized semicrystalline Polyamide PA66+PA6 and 40% long glass fibers. Grilon TSGL-40/4 black is characterized by the following key-properties: high stiffness and strength even after conditioning and over a wide temperature rangeexcellent notched impact resistance also at low temperatureslow creephigh heat distortion temperaturesgood dimensional stability and little warpagegood 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 black is used in the following market segments: automotivemechanical engineeringhousehold and appliances The glass-fibres 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-black-9833-PA666-GF40.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in³	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	185 MPa	26800 psi	conditioned; ISO 2039-1
	280 MPa	40600 psi	dry; ISO 2039-1
Tensile Strength at Break	160 MPa	23200 psi	conditioned; ISO 527-1/-2
	220 MPa	31900 psi	dry; ISO 527-1/-2
Elongation at Break	2.1 %	2.1 %	dry; ISO 527-1/-2
	2.5 %	2.5 %	conditioned; ISO 527-1/-2
Tensile Modulus	10.0 GPa	1450 ksi	conditioned; ISO 527-1/-2
	13.5 GPa	1960 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
	5.50 J/cm²	26.2 ft-lb/in²	conditioned; ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	6.00 J/cm²	28.6 ft-lb/in²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	2.50 J/cm²	11.9 ft-lb/in²	dry; ISO 179/1eA
	3.00 J/cm²	14.3 ft-lb/in²	conditioned; ISO 179/1eA
	2.50 J/cm²	11.9 ft-lb/in²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	3.00 J/cm²	14.3 ft-lb/in²	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	225 °C	437 °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	22.0 kV/mm	559 kV/in	conditioned; IEC 60243-1
	27.0 kV/mm	686 kV/in	dry; IEC 60243-1
Comparative Tracking Index	500 V	500 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Automotive electr. and electronics, lighting	

Descriptive Properties	Value	Comments
	Cooling and climate control	
	Exterior	
	Interior	
	Powertrain and Chassis	
Electricals & Electronics	Connectors	
	Electrical appliances	
	Electrical equipment	
	Energy distribution	
Form	Granules	
Industry & Consumer goods	Housewares	
	Hydraulics & Pneumatics	
	Mechanical Engineering	
	Power transmission	
	Sports & Leisure	
	Tools & Accessories	
Processing	Injection Molding	
Product Attributes	Long Fiber Reinforced	
Special Characteristics	Improved heat resistance	

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