EMS-Grivory Grivory® XE 5107 (GVL-5H V0) PA*-GF50

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Product description: Grivory XE 5107 black 9915 is based on a combination of a heat stabilized semi-crystalline Polyamide with a partially aromatic Polyamide. The product is flame retarded and reinforced by 50% long glass fibers. Grivory XE 5107 black 9915 is characterized by the following key-properties:flame retardancy of V-0 and 5VA at 1.6 mmGlow wire ignition > 800°C, CTI 600 Vvery high stiffness and strength even after conditioning and over a wide temperature rangeexcellent notched impact resistance also at low temperaturesvery low creephigh heat distortion temperatureslow moisture absorptionvery good dimensional stability and little warpage Grivory XE 5107 is halogen free and does not contain red phosphorus. It complies with the regulations acc. RoHS (2002/95/EC) and is not affected by the guideline 2002/96/EC (WEEE) for Electro-Appliances. The product has been designed for injection moulding of technical parts especially in the area of flame retardant parts with no electrostatic charging possible Grivory XE 5107 (GVL-4H V0) black 9915 is used in the following market segments:automotivemechanical engineeringelectro-mechanical partsThe 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-XE-5107-GVL-5H-V0-PA-GF50.php

Physical Properties	Metric	English	Comments
Density	1.59 g/cc	0.0574 lb/in³	ISO 1183
Water Absorption	3.6 %	3.6 %	ISO 62
Moisture Absorption	1.00 %	1.00 %	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	250 MPa	36300 psi	conditioned; ISO 2039-1
	265 MPa	38400 psi	dry; ISO 2039-1
Tensile Strength at Break	205 MPa	29700 psi	conditioned; ISO 527-1/-2
	230 MPa	33400 psi	dry; ISO 527-1/-2
Elongation at Break	2.4 %	2.4 %	dry; ISO 527-1/-2
	2.5 %	2.5 %	conditioned; ISO 527-1/-2
Tensile Modulus	16.5 GPa	2390 ksi	conditioned; ISO 527-1/-2
	17.5 GPa	2540 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	9.00 J/cm²	42.8 ft-lb/in²	conditioned; ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	9.00 J/cm² @Temperature 30.0 °C	42.8 ft-lb/in² @Temperature 86.0 °F	dry; ISO 179/1eU
	9.00 J/cm² @Temperature 30.0 °C	42.8 ft-lb/in² @Temperature 86.0 °F	conditioned; ISO 179/1eU
Charpy Impact, Notched	3.00 J/cm²	14.3 ft-lb/in²	dry; ISO 179/1eA
	3.00 J/cm²	14.3 ft-lb/in²	conditioned; ISO 179/1eA
	3.00 J/cm² @Temperature 30.0 °C	14.3 ft-lb/in² @Temperature 86.0 °F	dry; ISO 179/1eU
	3.00 J/cm² @Temperature 30.0 °C	14.3 ft-lb/in² @Temperature 86.0 °F	conditioned; 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	50.0 µm/m-°C	27.8 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 - 120 °C	212 - 248 °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	V-0	V-0	IEC 60695-11-10
	5VA	5VA	IEC 60695-11-20

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	dry; IEC 60093
	1.00e+12 ohm-cm	1.00e+12 ohm-cm	conditioned; IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Strength	33.0 kV/mm	838 kV/in	dry; IEC 60243-1
	33.0 kV/mm	838 kV/in	conditioned; IEC 60243-1

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	600 V	600 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Automotive electr. and electronics, lighting	
	Cooling and climate control	
	Exterior	
	Interior	
	Powertrain and Chassis	
Electricals & Electronics	Connectors	
	Electrical appliances	
	Electrical equipment	
	Energy distribution	
	Lighting	
Form	Granules	
Industry & Consumer goods	Heating systems	
	Housewares	
	Hydraulics & Pneumatics	
	Mechanical Engineering	
	Power transmission	
	Sports & Leisure	
	Tools & Accessories	
Processing	Injection Molding	
Product Attributes	Long Fiber Reinforced	
	Partially aromatic Polyamide	
Special Characteristics	Flame retardant	
	Improved heat resistance	

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