

EMS-Grivory Grivory® HT2C-3X black 9833 PA6T/66-CF30

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66

Material Notes:

Product description: Grivory HT2C-3X black 9833 us a 30% carbon-fiber reinforced engineering thermoplastic material based on a semi-crystalline, partially aromatic copolyamide. Acc to ISO: PA 6T/66. Acc. to ASTM: PPA, polyphthalamide. Grivory HT2C-3X black 9833 is an injection molding material which has a low density. It is electrically conductive. The main distinguishing feature of Grivory HT, when compared to other polyamides, is its good performance at high temperatures providing parts which are stiffer, stronger and have better heat distortion stability and chemical resistance. Grivory HT is suitable for production of technical parts in the application fields of:

Electrical/ElectronicsAutomotiveSafety technologyMechanical engineering Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-HT2C-3X-black-9833-PA6T66-CF30.php

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in ³	ISO 1183
Water Absorption	4.5 %	4.5 %	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	0.0050 cm/cm	0.0050 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	290 MPa	42100 psi	conditioned; ISO 2039-1
	300 MPa	43500 psi	dry; ISO 2039-1
Tensile Strength at Break	265 MPa	38400 psi	conditioned; ISO 527-1/-2
	275 MPa	39900 psi	dry; ISO 527-1/-2
Elongation at Break	2.0 %	2.0 %	dry; ISO 527-1/-2
	2.0 %	2.0 %	conditioned; ISO 527-1/-2
Tensile Modulus	24.0 GPa	3480 ksi	conditioned; ISO 527-1/-2
	24.5 GPa	3550 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	5.50 J/cm ²	26.2 ft-lb/in ²	dry; ISO 179/1eU
	5.50 J/cm ²	26.2 ft-lb/in ²	conditioned; ISO 179/1eU
	5.00 J/cm ² @Temperature 30.0 °C	23.8 ft-lb/in ² @Temperature 86.0 °F	dry; ISO 179/1eU

Mechanical Properties	Metric ¹ /cm ²	English ^{1b} /in ²	Comments
	@Temperature 30.0 °C	@Temperature 86.0 °F	conditioned; ISO 179/1eU
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	dry; ISO 179/1eA
	0.800 J/cm ²	3.81 ft-lb/in ²	conditioned; ISO 179/1eA
	0.700 J/cm ²	3.33 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	0.700 J/cm ²	3.33 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	75.0 µm/m-°C	41.7 µin/in-°F	ISO 11359-1/-2
Melting Point	310 °C	590 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	140 °C	284 °F	long term; EMS
	240 °C	464 °F	short term; EMS
Deflection Temperature at 1.8 MPa (264 psi)	290 °C	554 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	245 °C	473 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	5000 ohm-cm	5000 ohm-cm	dry; IEC 60093
	5000 ohm-cm	5000 ohm-cm	conditioned; IEC 60093
Surface Resistance	100 ohm	100 ohm	IEC 60093

Descriptive Properties	Value	Comments
Automotive	Compressed air systems	
	Fuel systems	
	Hydraulic systems	
	Interior	
	Powertrain and Chassis	

Descriptive Properties	Value	Comments
Form	Granules	
Industry & Consumer goods	Housewares	
	Hydraulics & Pneumatics	
	Mechanical Engineering	
	Power transmission	
	Tools & Accessories	
Processing	Injection Molding	
Product Attributes	Co Polyamide	
	Improved alcohol resistance	
	Improved friction & wear properties	
	Partially aromatic Polyamide	
Special Characteristics	Anti-static	
	Improved heat resistance	

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