

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

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

Material Notes:

Product description: Grivory HT2C-3X LF black 9833 is a 30% carbon-fibre reinforced, PTFE modified engineering thermoplastic based on semicrystalline partially aromatic copolyamide. Polymer designation acc. ISO: PA6T/66 Polymer designation acc. ASTM: PPA, Polyphthalamide Grivory HT2C-3X LF black 9833 is especially used in tribological applications. Grivory HT2C-3X LF black 9833 exhibits a high hardness, good crystallinity and a high heat distortion temperature also after moisture absorption. The PTFE (polytetrafluoroethylene) modification reduces the sliding friction after a short initial phase. As each tribological system has its own properties (material combination, temperature, load), the suitability of the product has to be tested for each application under practical conditions. Information provided by EMS Grivory

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	ISO 1183
Water Absorption	4.3 %	4.3 %	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	0.0030 cm/cm	0.0030 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	260 MPa	37700 psi	conditioned; ISO 2039-1
	290 MPa	42100 psi	dry; ISO 2039-1
Tensile Strength at Break	210 MPa	30500 psi	conditioned; ISO 527-1/-2
	240 MPa	34800 psi	dry; ISO 527-1/-2
Elongation at Break	1.5 %	1.5 %	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
	24.0 GPa	3480 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	4.00 J/cm ²	19.0 ft-lb/in ²	dry; ISO 179/1eU
	4.00 J/cm ²	19.0 ft-lb/in ²	conditioned; ISO 179/1eU
	4.00 J/cm ²	19.0 ft-lb/in ²	dry; ISO 179/1eU

Mechanical Properties	@Temperature 30.0 °C Metric	@Temperature 86.0 °F English	Comments
	4.00 J/cm ²	19.0 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	0.700 J/cm ²	3.33 ft-lb/in ²	dry; ISO 179/1eA
	0.700 J/cm ²	3.33 ft-lb/in ²	conditioned; ISO 179/1eA
	0.500 J/cm ²	2.38 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	0.500 J/cm ²	2.38 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	10.0 µm/m-°C	5.56 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	70.0 µm/m-°C	38.9 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)	280 °C	536 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	210 °C	410 °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
Dielectric Strength	3.00 kV/mm	76.2 kV/in	dry; IEC 60243-1
	3.00 kV/mm	76.2 kV/in	conditioned; IEC 60243-1

Descriptive Properties	Value	Comments
Automotive	Compressed air systems	
	Fuel systems	

Descriptive Properties	Hydraulic systems Value	Comments
	Interior	
	Powertrain and Chassis	
Electricals & Electronics	Electrical equipment	
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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