

EMS-Grivory Grivory® XE 4095 black 9225 PA*-GF50

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Product description: Grivory XE 4095 is a 50% glass-fiber reinforced engineering thermoplastic material based on a semi-crystalline, partially aromatic copolyamide. This Grivory HT product is partially based on renewable raw materials. ISO polymer designation: PA 10T/X ASTM designation: PPA, polyphthalamide. The main distinguishing features of Grivory HT-PPA, when compared to other polyamides, are its good performance at high temperatures. Parts made of Grivory HT provide high stiffness and heat distortion temperatures. Further attributes of Grivory HT are the low moisture absorption, good dimensional stability and excellent chemical resistance. Grivory XE 4095 is especially suitable for parts in the following application areas:Electro / ElectronicsAutomotiveIndustrialSafety equipmentHouseholdInformation provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-XE-4095-black-9225-PA-GF50.php

Physical Properties	Metric	English	Comments
Density	1.58 g/cc	0.0571 lb/in ³	ISO 1183
Water Absorption	1.7 %	1.7 %	ISO 62
Moisture Absorption	0.800 %	0.800 %	ISO 62
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	280 MPa	40600 psi	dry; ISO 2039-1
	280 MPa	40600 psi	conditioned; ISO 2039-1
Tensile Strength at Break	200 MPa	29000 psi	conditioned; ISO 527-1/-2
	220 MPa	31900 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	16.5 GPa	2390 ksi	conditioned; ISO 527-1/-2
	17.0 GPa	2470 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	7.00 J/cm ²	33.3 ft-lb/in ²	conditioned; ISO 179/1eU
	8.00 J/cm ²	38.1 ft-lb/in ²	dry; ISO 179/1eU
	7.00 J/cm ²	33.3 ft-lb/in ²	conditioned; ISO 179/1eU

Mechanical Properties	@Temperature 30.0 °C Metric	@Temperature 86.0 °F English	Comments
	7.50 J/cm ²	35.7 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	1.10 J/cm ²	5.23 ft-lb/in ²	dry; ISO 179/1eA
	1.10 J/cm ²	5.23 ft-lb/in ²	conditioned; ISO 179/1eA
	1.00 J/cm ²	4.76 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	1.00 J/cm ²	4.76 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	60.0 µm/m-°C	33.3 µin/in-°F	ISO 11359-1/-2
Melting Point	295 °C	563 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	150 °C	302 °F	long term; EMS
	260 °C	500 °F	short term; EMS
Deflection Temperature at 1.8 MPa (264 psi)	270 °C	518 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	240 °C	464 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10
	HB	HB	IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	

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+11 ohm	1.00e+11 ohm	IEC 60093
Dielectric Strength	31.0 kV/mm	787 kV/in	conditioned; IEC 60243-1
	32.0 kV/mm	813 kV/in	dry; IEC 60243-1
Comparative Tracking Index	600 V	600 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Air intake systems	
	Compressed air systems	
	Cooling and climate control	
	Fuel systems	
	Hydraulic systems	
	Interior	
	Powertrain and Chassis	
Form	Granules	
Industry & Consumer goods	Hydraulics & Pneumatics	
	Mechanical Engineering	
	Power transmission	
	Tools & Accessories	
Processing	Injection Molding	
Product Attributes	Bio based Polyamide	
	Hydrolysis resistant	
	Improved alcohol resistance	
	Partially aromatic Polyamide	
Special Characteristics	Improved heat resistance	

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