

EMS-Grivory Grivory® XE 4134 black 9225 PA*-GF30

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Product description: Grivory XE 4134 is a 30% glass-fiber reinforced engineering thermoplastic material based on a semi-crystalline, partially aromatic copolyamide. ISO polymer designation: PA 10T/X ASTM designation: PPA, polyphthalamide. This Grivory HT product is partially based on renewable raw materials. The main distinguishing features of Grivory HT-PPA, when compared to other polyamides, are its good performance at high temperatures providing parts which are stiffer, stronger, have better heat distortion and dimensional stability as well as excellent chemical resistance and low moisture absorption. Grivory XE 4134 possesses improved flow properties and is especially suitable for low warpage injection molded components in electrical and electronic applications. The material is suitable for lead-free SMT reflow soldering (peak temperature 260°C). Components conforming to JEDEC J-STD-020CMSL1 are achievable. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-XE-4134-black-9225-PA-GF30.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	ISO 1183
Water Absorption	2.0 %	2.0 %	ISO 62
Moisture Absorption	0.900 %	0.900 %	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	240 MPa	34800 psi	dry; ISO 2039-1
	240 MPa	34800 psi	conditioned; ISO 2039-1
Tensile Strength at Break	140 MPa	20300 psi	conditioned; ISO 527-1/-2
	145 MPa	21000 psi	dry; ISO 527-1/-2
Elongation at Break	1.6 %	1.6 %	conditioned; ISO 527-1/-2
	1.8 %	1.8 %	dry; ISO 527-1/-2
Tensile Modulus	10.0 GPa	1450 ksi	conditioned; ISO 527-1/-2
	10.0 GPa	1450 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	3.00 J/cm ²	14.3 ft-lb/in ²	dry; ISO 179/1eU
	3.00 J/cm ²	14.3 ft-lb/in ²	conditioned; ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	3.00 J/cm ²	14.3 ft-lb/in ²	conditioned; 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
	1.10 J/cm ²	5.23 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	1.10 J/cm ²	5.23 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	20.0 µm/m-°C	11.1 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	65.0 µm/m-°C	36.1 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
	250 °C	482 °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	165 °C	329 °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	35.0 kV/mm	889 kV/in	dry; IEC 60243-1
	35.0 kV/mm	889 kV/in	conditioned; IEC 60243-1
Comparative Tracking Index	600 V	600 V	conditioned; IEC 60112

Electrical Properties Descriptive Properties	Metric	English Value	Comments Comments
Automotive		Air intake sytems	
		Compressed air systems	
		Fuel systems	
		Hydraulic systems	
		Interior	
		Powertrain and Chassis	
Electricals & Electronics		Electrical equipment	
Form		Granules	
Industry & Consumer goods		Hydraulics & Pneumatics	
		Mechanical Engineering	
		Power transmission	
		Tools & Accessories	
Processing		Injection Molding	
Product Attributes		Bio based Polyamide	
		Co Polyamide	
		Hydrolysis resistant	
		Improved alcohol resistance	
		Partially aromatic Polyamide	
Special Characteristics		Anti-static	
		Improved heat resistance	

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