

EMS-Grivory Grivory® XE 4063 black 9238 PA6T/66-GF30

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/6 , 30% Glass Fiber Reinforced

Material Notes:

Product description: Grivory XE 4063 is a 30% 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, 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 4063 is especially suitable for injection molded parts in application areas such as automotive, industrial, safety equipment, household and electro and electronic applications. The material is suitable for lead-free SMT reflow soldering acc. i.e. JEDEC J-STD-020C (peak temperature 260°C). Components conforming to JEDEC MSL1 are achievable. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-XE-4063-black-9238-PA6T66-GF30.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ISO 1183
Water Absorption	2.4 %	2.4 %	ISO 62
Moisture Absorption	1.00 %	1.00 %	ISO 62
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	210 MPa	30500 psi	dry; ISO 2039-1
	210 MPa	30500 psi	conditioned; ISO 2039-1
Tensile Strength at Break	165 MPa	23900 psi	conditioned; ISO 527-1/-2
	180 MPa	26100 psi	dry; ISO 527-1/-2
Elongation at Break	2.8 %	2.8 %	conditioned; ISO 527-1/-2
	3.0 %	3.0 %	dry; ISO 527-1/-2
Tensile Modulus	9.50 GPa	1380 ksi	conditioned; ISO 527-1/-2
	9.50 GPa	1380 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

Mechanical Properties	Metric	English	Comments
	6.00 J/cm ²	28.6 ft-lb/in ²	Common ISO; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	7.00 J/cm ²	33.3 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	dry; ISO 179/1eA
	1.00 J/cm ²	4.76 ft-lb/in ²	conditioned; ISO 179/1eA
	0.800 J/cm ²	3.81 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	0.900 J/cm ²	4.28 ft-lb/in ²	dry; 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	70.0 µm/m-°C	38.9 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)	260 °C	500 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	150 °C	302 °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	37.0 kV/mm	940 kV/in	conditioned; IEC 60243-1
	38.0 kV/mm	965 kV/in	dry; IEC 60243-1
Comparative Tracking Index	600 V	600 V	conditioned; IEC 60112

Electrical Properties Descriptive Properties	Metric Value	English	Comments	Comments
Automotive		Automotive electr. and electronics, lighting		
		Interior		
Electricals & Electronics		Electrical appliances		
		Lighting		
Form		Granules		
Industry & Consumer goods		Hydraulics & Pneumatics		
		Mechanical Engineering		
		Power transmission		
		Tools & Accessories		
Processing		Injection Molding		
Product Attributes		Co Polyamide		
		Improved alcohol resistance		
		Improved flowability and demoulding		
		Partially aromatic Polyamide		
Special Characteristics		Flame retardant		
		Improved heat resistance		

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