

EMS-Grivory Grivory® XE 4217 black 9233 PA6T/66-GF45

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/6 , 40% Glass Fiber Reinforced

Material Notes:

Product description: Grivory XE 4217 black 9233 is a high heat stabilized, 45% glass fiber reinforced, semicrystalline, thermoplastic engineering material for injection moulding. Polymer designation according to ISO: PA 6T/66+X Acc. to ASTM: PPA, polyphthalamide. The main distinguishing feature of Grivory HT-PPA, 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. The special property profile of Grivory XE 4217 black 9233 makes it suitable for automotive parts with very high demands on heat stability. Parts of good surface quality are feasible. Grivory XE 4217 black 9233 is applicable for engine compartment and power-train applications such as: Charge air ducts Charge air cooler tanks Air intake silencers Oil sumps Functional parts Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-XE-4217-black-9233-PA6T66-GF45.php

Physical Properties	Metric	English	Comments
Density	1.58 g/cc	0.0571 lb/in ³	ISO 1183
Water Absorption	4.3 %	4.3 %	ISO 62
Moisture Absorption	1.70 %	1.70 %	ISO 62
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 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	250 MPa	36300 psi	conditioned; ISO 2039-1
	270 MPa	39200 psi	dry; ISO 2039-1
Tensile Strength at Break	165 MPa	23900 psi	conditioned; ISO 527-1/-2
	230 MPa	33400 psi	dry; ISO 527-1/-2
Elongation at Break	2.7 %	2.7 %	dry; ISO 527-1/-2
	2.7 %	2.7 %	conditioned; ISO 527-1/-2
Tensile Modulus	13.0 GPa	1890 ksi	conditioned; ISO 527-1/-2
	15.0 GPa	2180 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	7.00 J/cm ²	33.3 ft-lb/in ²	dry; ISO 179/1eU
	8.00 J/cm ²	38.1 ft-lb/in ²	conditioned; ISO 179/1eU
	6.00 J/cm ²	28.6 ft-lb/in ²	dry; ISO 179/1eU

Mechanical Properties	@Temperature 30.0 °C Metric	@Temperature 86.0 °F English	Comments
	6.00 J/cm ²	28.6 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
	0.900 J/cm ²	4.28 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	0.900 J/cm ²	4.28 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	70.0 µm/m-°C	38.9 µin/in-°F	ISO 11359-1/-2
Melting Point	300 °C	572 °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)	240 °C	464 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	170 °C	338 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10

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+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Strength	45.0 kV/mm	1140 kV/in	dry; IEC 60243-1
	45.0 kV/mm	1140 kV/in	conditioned; IEC 60243-1
Comparative Tracking Index	600 V	600 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Air intake systems	

Descriptive Properties	Fuel systems Value	Comments
	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	
	Improved alcohol resistance	
	Partially aromatic Polyamide	
Special Characteristics	Improved heat resistance	

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