EMS-Grivory Grivory® XE 4176 black 9288 PA1010-GF50

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Nylon

Material Notes:

Product description: Grilamid XE 4176 black 9288 is a 50% glass fiber reinforced, heat stabilized polyamide 1010 injection molding grade. The main features of Grilamid XE 4176 black 9288 are: PA1010 Polymer fully based on renewable raw materialsvery low water absorptiongood chemical and UV resistancegood toughnesseasy processing Grilamid XE 4176 black 9288 is particularly suitable for the manufacturing of technical injection molded parts in the application fields of: AutomotiveElectrical & Electronic goodsMechanical engineeringSports & leisure goodsDomestic appliancesInformation provided by EMS Grivory

Order this product through the following link:
http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-XE-4176-black-9288-PA1010-GF50.php

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in³	ISO 1183
Water Absorption	1.0 %	1.0 %	ISO 62
Moisture Absorption	0.500 %	0.500 %	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	185 MPa	26800 psi	conditioned; ISO 2039-1
	210 MPa	30500 psi	dry; ISO 2039-1
Tensile Strength at Break	150 MPa	21800 psi	conditioned; ISO 527-1/-2
	170 MPa	24700 psi	dry; ISO 527-1/-2
Elongation at Break	4.0 %	4.0 %	dry; ISO 527-1/-2
	4.5 %	4.5 %	conditioned; ISO 527-1/-2
Tensile Modulus	12.2 GPa	1770 ksi	conditioned; ISO 527-1/-2
	14.0 GPa	2030 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	9.00 J/cm²	42.8 ft-lb/in²	dry; ISO 179/1eU
	9.00 J/cm²	42.8 ft-lb/in²	conditioned; ISO 179/1eU
	9.00 J/cm² @Temperature 30.0 °C	42.8 ft-lb/in² @Temperature 86.0 °F	dry; ISO 179/1eU
	9.00 J/cm²	42.8 ft-lb/in²	

Mechanical Properties	Metric	English	Comments
	@Temperature 30.0 °C	@Temperature 86.0 °F	conditioned; ISO 179/1eU
Charpy Impact, Notched	1.60 J/cm²	7.61 ft-lb/in²	dry; ISO 179/1eA
	1.60 J/cm²	7.61 ft-lb/in²	conditioned; ISO 179/1eA
	1.20 J/cm² @Temperature 30.0 °C	5.71 ft-lb/in² @Temperature 86.0 °F	dry; ISO 179/1eU
	1.20 J/cm² @Temperature 30.0 °C	5.71 ft-lb/in² @Temperature 86.0 °F	conditioned; ISO 179/1eU

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	110 µm/m-°C	61.1 µin/in-°F	ISO 11359-1/-2
Melting Point	200 °C	392 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 1.8 MPa (264 psi)	180 °C	356 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	135 °C	275 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+11 ohm-cm	1.00e+11 ohm-cm	dry; IEC 60093
	1.00e+11 ohm-cm	1.00e+11 ohm-cm	conditioned; IEC 60093
Surface Resistance	1.00e+10 ohm	1.00e+10 ohm	IEC 60093
Dielectric Strength	35.0 kV/mm	889 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

Descriptive Properties	Value	Comments
Automotive	Automotive electr. and electronics, lighting	
	Compressed air systems	
	Exterior	
	Fuel systems	
	Hydraulic systems	

Descriptive Properties	Value	Comments
	Interior	
	Powertrain and Chassis	
Electricals & Electronics	Connectors	
	Electrical appliances	
	Electrical equipment	
	Lighting	
Form	Granules	
Industry & Consumer goods	Housewares	
	Hydraulics & Pneumatics	
	Mechanical Engineering	
	Medical devices	
	Power transmission	
	Sports & Leisure	
	Tools & Accessories	
Processing	Injection Molding	
Product Attributes	Bio based Polyamide	
Special Characteristics	High impact or impact modified	
	Improved heat resistance	
	Improved UV resistance (outdoor use)	
	Light stabilized or stable to light	

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