

EMS-Grivory Grivory® XE 4104 black 9992 PA610-GF40

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Nylon , Nylon 610 , Nylon 610, Glass Reinforced

Material Notes:

Product description: Grilamid XE 4104 black 9992 is a 40% glass fiber reinforced, heat stabilized polyamide 610 injection molding grade. This product is to a large extent based on renewable raw materials and its ecoprofile is very favorable when compared to similar products based on crude oil. The main features of Grilamid XE 4104 black 9992 are: Low water absorption Good heat, UV and chemical resistance Easy processing Grilamid XE 4104 black 9992 is particularly suitable for the manufacturing of technical injection molded parts in the application fields of: Automotive Electrical & Electronic goods Mechanical engineering Sports & leisure goods Domestic appliances Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-XE-4104-black-9992-PA610-GF40.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	155 MPa	22500 psi	conditioned; ISO 2039-1
	215 MPa	31200 psi	dry; ISO 2039-1
Tensile Strength at Break	140 MPa	20300 psi	conditioned; ISO 527-1/-2
	185 MPa	26800 psi	dry; ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	dry; ISO 527-1/-2
	5.0 %	5.0 %	conditioned; ISO 527-1/-2
Tensile Modulus	10.0 GPa	1450 ksi	conditioned; ISO 527-1/-2
	12.5 GPa	1810 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	8.00 J/cm ²	38.1 ft-lb/in ²	dry; ISO 179/1eU
	8.50 J/cm ²	40.4 ft-lb/in ²	conditioned; ISO 179/1eU
	8.50 J/cm ²	40.4 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	9.00 J/cm ²	42.8 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Charpy Impact, Notched Mechanical Properties	1.30 J/cm ² Metric	6.19 ft-lb/in ² English	dry; ISO 179/1eA Comments
	1.60 J/cm ²	7.61 ft-lb/in ²	conditioned; ISO 179/1eA
	1.00 J/cm ² @Temperature 30.0 °C	4.76 ft-lb/in ² @Temperature 86.0 °F	dry; ISO 179/1eU
	1.00 J/cm ² @Temperature 30.0 °C	4.76 ft-lb/in ² @Temperature 86.0 °F	conditioned; ISO 179/1eU

Thermal Properties	Metric	English	Comments
Melting Point	225 °C	437 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	100 - 130 °C	212 - 266 °F	long term; EMS
	160 °C	320 °F	short term; EMS
Deflection Temperature at 1.8 MPa (264 psi)	205 °C	401 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	160 °C	320 °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+11 ohm	1.00e+11 ohm	IEC 60093
Dielectric Strength	5.00 kV/mm	127 kV/in	conditioned; IEC 60243-1
	36.0 kV/mm	914 kV/in	dry; IEC 60243-1
Comparative Tracking Index	600 V	600 V	conditioned; IEC 60112

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

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

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