

EMS-Grivory Grivory® 1SVX-50H nat PA1010-GF50

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

Material Notes:

Product Description: Grilamid 1SVX-50H natural is a 50% glass fiber reinforced Polyamide 1010 injection molding grade with the following product profile: Raw materials based on renewable resources Excellent impact and notched impact strength Good stiffness and strength Improved warpage performance Improved flowability Easy processing High dimensional stability Good surface finish Good UV and chemical resistance Grilamid 1SVX-50H nat is suitable for production of technical parts in the application fields of: Electrical and electronic devices Automotive Mechanical engineering Sports & leisure goods Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-1SVX-50H-nat-PA1010-GF50.php

Physical Properties	Metric	English	Comments
Density	1.51 g/cc	0.0546 lb/in ³	ISO 1183
Water Absorption	2.0 %	2.0 %	ISO 62
Moisture Absorption	0.600 %	0.600 %	ISO 62
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0040 cm/cm	0.0040 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	160 MPa	23200 psi	conditioned; ISO 527-1/-2
	200 MPa	29000 psi	dry; ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	dry; ISO 527-1/-2
	3.0 %	3.0 %	conditioned; ISO 527-1/-2
Tensile Modulus	13.0 GPa	1890 ksi	conditioned; ISO 527-1/-2
	14.5 GPa	2100 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	10.0 J/cm ²	47.6 ft-lb/in ²	dry; ISO 179/1eU
	10.0 J/cm ²	47.6 ft-lb/in ²	conditioned; ISO 179/1eU
	8.50 J/cm ²	40.4 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	8.50 J/cm ²	40.4 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	2.00 J/cm ²	9.52 ft-lb/in ²	dry; ISO 179/1eA

Mechanical Properties	Metric ¹ /cm ²	English ¹ /lb/in ²	Comments ² ; ISO 179/1eA
	1.80 J/cm ²	8.57 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	1.80 J/cm ²	8.57 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	10.0 µm/m-°C	5.56 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	80.0 µm/m-°C	44.4 µin/in-°F	ISO 11359-1/-2
Melting Point	200 °C	392 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	100 °C	212 °F	long term; EMS
	150 °C	302 °F	short term; EMS
Deflection Temperature at 1.8 MPa (264 psi)	190 °C	374 °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+13 ohm-cm	1.00e+13 ohm-cm	dry; IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Comparative Tracking Index	600 V	600 V	dry; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Automotive electr. and electronics, lighting	
	Compressed air systems	
	Exterior	
	Fuel systems	
	Hydraulic systems	
	Interior	
	Powertrain and Chassis	
Electricals & Electronics	Connectors	

Descriptive Properties	Value	Comments
	Electrical appliances	
	Electrical equipment	
	Lighting	
	Mobile phones and other portable devices	
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	
	Improved flowability and demoulding	
Special Characteristics	High impact or impact modified	
	Improved UV resistance (outdoor use)	
	Light stabilized or stable to light	

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