

EMS-Grivory Grivory® LV-23H PA12-GF23

Category : Polymer , Thermoplastic , Nylon , Nylon 12 , Nylon 12, 20% Glass Fiber Filled

Material Notes:

Product description: Grilamid LV-23H is a 23% glass fiber reinforced, heat stabilized polyamide 12 injection molding grade with the following product profile. Good chemical resistance Good UV stability High impact strength Low moisture absorption Good dimensional stability Grilamid LV-23H is suitable for the production of technical parts in the application fields of: Electrical equipment Electronics Automotive Mechanical engineering Domestic appliances Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-LV-23H-PA12-GF23.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	ISO 1183
Water Absorption	1.2 %	1.2 %	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	0.0070 cm/cm	0.0070 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75	75	conditioned, 15s; ISO 868
Ball Indentation Hardness	110 MPa	16000 psi	conditioned; ISO 2039-1
Tensile Strength at Break	95.0 MPa	13800 psi	conditioned; ISO 527-1/-2
	110 MPa	16000 psi	dry; ISO 527-1/-2
Elongation at Break	7.0 %	7.0 %	dry; ISO 527-1/-2
	9.0 %	9.0 %	conditioned; ISO 527-1/-2
Tensile Modulus	5.00 GPa	725 ksi	conditioned; ISO 527-1/-2
	5.80 GPa	841 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	8.00 J/cm ²	38.1 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	
Charpy Impact, Notched	2.00 J/cm ²	9.52 ft-lb/in ²	conditioned; ISO 179/1eA
	1.20 J/cm ²	5.71 ft-lb/in ²	conditioned; ISO 179/1eU

Mechanical Properties	@Temperature 30.0 °C Metric	@Temperature 86.0 °F English	Comments
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	150 µm/m-°C	83.3 µin/in-°F	ISO 11359-1/-2
Melting Point	178 °C	352 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	90.0 - 120 °C	194 - 248 °F	long term; EMS
	150 °C	302 °F	short term; EMS
Deflection Temperature at 1.8 MPa (264 psi)	155 °C	311 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	80.0 °C	176 °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	conditioned; IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Strength	35.0 kV/mm	889 kV/in	conditioned; 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	
	Cooling and climate control	
	Fuel systems	
	Hydraulic systems	
	Powertrain and Chassis	
Electricals & Electronics	Connectors	
	Electrical appliances	
Form	Granules	
Industry & Consumer goods	Housewares	
	Hydraulics & Pneumatics	

Descriptive Properties	Value	Comments
	Mechanical Engineering	
	Medical devices	
	Power transmission	
	Sanitary, water and gas supply	
	Sports & Leisure	
	Tools & Accessories	
Processing	Injection Molding	
Product Attributes	Hydrolysis resistant	
Special Characteristics	High impact or impact modified	
	Improved heat resistance	
	Improved UV resistance (outdoor use)	

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