

EMS-Grivory Grivory® LV-3A H PA12-GF30

Category : Polymer , Thermoplastic , Nylon , Nylon 12 , Nylon 12, 30% Glass Fiber Filled

Material Notes:

Grilamid LV-3A H is a 30 % glass fibre reinforced PA12 for injection moulding. Grilamid LV-3A H is very stiff and tough and offers an improved hydrolysis resistance compared to standard PA12 GF 30. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-LV-3A-H-PA12-GF30.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	ISO 1183
Water Absorption	1.4 %	1.4 %	ISO 62
Moisture Absorption	0.600 %	0.600 %	ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	conditioned, 15s; ISO 868
Ball Indentation Hardness	120 MPa	17400 psi	conditioned; ISO 2039-1
Tensile Strength at Break	110 MPa	16000 psi	conditioned; ISO 527-1/-2
	120 MPa	17400 psi	dry; ISO 527-1/-2
Elongation at Break	6.0 %	6.0 %	dry; ISO 527-1/-2
	6.0 %	6.0 %	conditioned; ISO 527-1/-2
Tensile Modulus	5.70 GPa	827 ksi	conditioned; ISO 527-1/-2
	6.50 GPa	943 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	8.00 J/cm ²	38.1 ft-lb/in ²	conditioned; ISO 179/1eU
	8.00 J/cm ²	38.1 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	2.50 J/cm ²	11.9 ft-lb/in ²	conditioned; ISO 179/1eA
	1.50 J/cm ²	7.14 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	180 °C	356 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 1.8 MPa	165 °C	329 °F	

(264 psi) Thermal Properties	Metric	English	ISO 75-1/-2 Comments
Deflection Temperature at 8.0 MPa	90.0 °C	194 °F	ISO 75-1/-2

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	32.0 kV/mm	813 kV/in	conditioned; IEC 60243-1
Comparative Tracking Index	575 V	575 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Cooling and climate control	
	Fuel systems	
Form	Granules	
Industry & Consumer goods	Heating systems	
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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