

EMS-Grivory Grivory® LV-65H SST nat PA12-GF65

Category : Polymer , Thermoplastic , Nylon , Nylon 12 , Nylon 12, 50% Glass Fiber Filled

Material Notes:

Product description: Grilamid LV-65H SST natural is a 65% glass fiber reinforced, heat stabilized engineering thermoplastic based on polyamide 12, designed for complex structural parts with the following product profile: High strength, high stiffness High impact energy absorption Low water absorption Suitable for often repeated steam sterilization High dimensional stability Easy processing, good flow characteristic Good chemical resistance High heat stability Grilamid LV-65H SST natural is suitable for production of technical parts in applications such as: Housings of electronic devices Automotive Safety components Mechanical engineering Housings of Medical devices and instruments Sports and leisure goods Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-LV-65H-SST-nat-PA12-GF65.php

Physical Properties	Metric	English	Comments
Density	1.70 g/cc	0.0614 lb/in ³	ISO 1183
Water Absorption	0.70 %	0.70 %	ISO 62
Moisture Absorption	0.300 %	0.300 %	ISO 62
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	88	88	conditioned, 15s; ISO 868
Ball Indentation Hardness	200 MPa	29000 psi	conditioned; ISO 2039-1
Tensile Strength at Break	180 MPa	26100 psi	conditioned; ISO 527-1/-2
	190 MPa	27600 psi	dry; ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	dry; ISO 527-1/-2
	3.5 %	3.5 %	conditioned; ISO 527-1/-2
Tensile Modulus	18.0 GPa	2610 ksi	conditioned; ISO 527-1/-2
	19.0 GPa	2760 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	7.50 J/cm ²	35.7 ft-lb/in ²	conditioned; ISO 179/1eU
	7.50 J/cm ²	35.7 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	1.30 J/cm ²	6.19 ft-lb/in ²	conditioned; ISO 179/1eA

Mechanical Properties	Metric ¹ cm ²	English ^{1b} in ²	Comments
	@Temperature 30.0 °C	@Temperature 86.0 °F	conditioned; ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	15.0 µm/m-°C	8.33 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	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)	165 °C	329 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	150 °C	302 °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	
	Hydraulic systems	
	Powertrain and Chassis	
Electricals & Electronics	Connectors	
	Electrical appliances	
	Electrical equipment	
	Mobile phones and other portable devices	
Form	Granules	
Industry & Consumer goods		

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

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