

## EMS-Grivory Grivory® LVX-65H SST nat PA12-GF65

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

### Material Notes:

Product description: Grilamid LVX-65H SST natural is a 65% glass fiber reinforced, heat stabilized engineering thermoplastic based on polyamide 12 for complex structural parts with the following product profile: Very high stiffness and strengthExcellent impact and notched impact strength Very low moisture absorptionSuitable for often repeated steam sterilizationVery high dimensional stabilityEasy processing, good flow, characteristicsHigh molding precision, low warpage Grilamid LVX-65H SST natural is suitable for production of technical parts in applications such as: Electronic devicesAutomotiveMechanical engineeringSafety componentsMedical devices and instrumentsSports and Leisure goodsInformation provided by EMS Grivory

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_EMS-Grivory-Grivory-LVX-65H-SST-nat-PA12-GF65.php](http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-LVX-65H-SST-nat-PA12-GF65.php)

Physical Properties	Metric	English	Comments
Density	1.70 g/cc	0.0614 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.80 %	0.80 %	ISO 62
Moisture Absorption	0.400 %	0.400 %	ISO 62
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0030 cm/cm	0.0030 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	200 MPa	29000 psi	conditioned; ISO 2039-1
Tensile Strength at Break	185 MPa	26800 psi	conditioned; ISO 527-1/-2
	210 MPa	30500 psi	dry; ISO 527-1/-2
Elongation at Break	2.5 %	2.5 %	dry; ISO 527-1/-2
	2.5 %	2.5 %	conditioned; ISO 527-1/-2
Tensile Modulus	17.0 GPa	2470 ksi	conditioned; ISO 527-1/-2
	19.0 GPa	2760 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	9.00 J/cm <sup>2</sup>	42.8 ft-lb/in <sup>2</sup>	dry; ISO 179/1eU
	9.00 J/cm <sup>2</sup>	42.8 ft-lb/in <sup>2</sup>	conditioned; ISO 179/1eU
	8.50 J/cm <sup>2</sup>	40.4 ft-lb/in <sup>2</sup>	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	8.50 J/cm <sup>2</sup>	40.4 ft-lb/in <sup>2</sup>	conditioned; ISO 179/1eU

Mechanical Properties	Metric @ Temperature 30.0 °C	English @ Temperature 86.0 °F	Comments
Charpy Impact, Notched	2.50 J/cm <sup>2</sup>	11.9 ft-lb/in <sup>2</sup>	dry; ISO 179/1eA
	2.50 J/cm <sup>2</sup>	11.9 ft-lb/in <sup>2</sup>	conditioned; ISO 179/1eA
	2.00 J/cm <sup>2</sup> @Temperature 30.0 °C	9.52 ft-lb/in <sup>2</sup> @Temperature 86.0 °F	dry; ISO 179/1eU
	2.00 J/cm <sup>2</sup> @Temperature 30.0 °C	9.52 ft-lb/in <sup>2</sup> @Temperature 86.0 °F	conditioned; ISO 179/1eU

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	70.0 µm/m-°C	38.9 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)	175 °C	347 °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	conditioned; IEC 60093
Surface Resistance	1.00e+11 ohm	1.00e+11 ohm	IEC 60093
Dielectric Strength	43.0 kV/mm	1090 kV/in	dry; IEC 60243-1
	43.0 kV/mm	1090 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	

<b>Descriptive Properties</b> Electricals & Electronics	<b>Value</b> Connectors	<b>Comments</b>
	Electrical appliances	
	Electrical equipment	
	Mobile phones and other portable devices	
<b>Form</b>	Granules	
<b>Industry &amp; Consumer goods</b>	Housewares	
	Hydraulics & Pneumatics	
	Mechanical Engineering	
	Medical devices	
	Power transmission	
	Sanitary, water and gas supply	
	Sports & Leisure	
	Tools & Accessories	
<b>Processing</b>	Injection Molding	
<b>Product Attributes</b>	Improved flowability and demoulding	
<b>Special Characteristics</b>	High impact or impact modified	
	Improved heat resistance	
	Improved UV resistance (outdoor use)	

## Contact Songhan Plastic Technology Co.,Ltd.

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