

## EMS-Grivory Grivory® 1SVX-65H black 9288 PA1010-GF65

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

### Material Notes:

**Product Description:** Grilamid 1SVX-65H black is a 65% 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 High stiffness and strength Improved warpage performance Improved flowability Easy processing High dimensional stability Good surface finish Good UV and chemical resistance Good adhesion to Grilamid BTR Grilamid 1SVX-65H black is suitable for manufacture 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-65H-black-9288-PA1010-GF65.php](http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-1SVX-65H-black-9288-PA1010-GF65.php)

Physical Properties	Metric	English	Comments
Density	1.76 g/cc	0.0636 lb/in <sup>3</sup>	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	200 MPa	29000 psi	conditioned; ISO 527-1/-2
	230 MPa	33400 psi	dry; ISO 527-1/-2
Elongation at Break	2.0 %	2.0 %	dry; ISO 527-1/-2
	2.0 %	2.0 %	conditioned; ISO 527-1/-2
Tensile Modulus	17.0 GPa	2470 ksi	conditioned; ISO 527-1/-2
	21.5 GPa	3120 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	8.50 J/cm <sup>2</sup>	40.4 ft-lb/in <sup>2</sup>	dry; ISO 179/1eU
	8.50 J/cm <sup>2</sup>	40.4 ft-lb/in <sup>2</sup>	conditioned; ISO 179/1eU
	8.00 J/cm <sup>2</sup>	38.1 ft-lb/in <sup>2</sup>	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	8.00 J/cm <sup>2</sup>	38.1 ft-lb/in <sup>2</sup>	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Charpy Impact, Notched Mechanical Properties	2.20 J/cm <sup>2</sup> Metric	10.5 ft-lb/in <sup>2</sup> English	dry; ISO 179/1eA Comments
	2.20 J/cm <sup>2</sup>	10.5 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	60.0 µm/m-°C	33.3 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	170 °C	338 °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	

Descriptive Properties	Value ctors	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	

## Contact Songhan Plastic Technology Co.,Ltd.

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