

## EMS-Grivory Grivory® EBGM-30 HX PA666-GF30

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/6 , 30% Glass Fiber Reinforced

### Material Notes:

Product description: Grilon EBGM-30 HX is a specially heat stabilized PA66+PA6 injection molding grade with 30% glass fibers. Grilon EBGM-30 HX has the following important properties: High heat resistance High stiffness Good flowability Good welding behavior

Application examples: Grilon EBGM-30 HZ is especially suitable for production of technical parts in the application fields of: Charged air ducts Connectors for air ducts Applications under the bonnet All applications with high heat resistance. Information provided by EMS Grivory

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_EMS-Grivory-Grivory-EBGM-30-HX-PA666-GF30.php](http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-EBGM-30-HX-PA666-GF30.php)

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in <sup>3</sup>	ISO 1183
Water Absorption	5.5 %	5.5 %	ISO 62
Moisture Absorption	2.00 %	2.00 %	ISO 62
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	105 MPa	15200 psi	conditioned; ISO 2039-1
	210 MPa	30500 psi	dry; ISO 2039-1
Tensile Strength at Break	90.0 MPa	13100 psi	conditioned; ISO 527-1/-2
	155 MPa	22500 psi	dry; ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	dry; ISO 527-1/-2
	6.0 %	6.0 %	conditioned; ISO 527-1/-2
Tensile Modulus	5.50 GPa	798 ksi	conditioned; ISO 527-1/-2
	9.50 GPa	1380 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	7.00 J/cm <sup>2</sup>	33.3 ft-lb/in <sup>2</sup>	dry; ISO 179/1eU
	7.00 J/cm <sup>2</sup>	33.3 ft-lb/in <sup>2</sup>	conditioned; ISO 179/1eU
	6.50 J/cm <sup>2</sup>	30.9 ft-lb/in <sup>2</sup>	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	6.50 J/cm <sup>2</sup>	30.9 ft-lb/in <sup>2</sup>	conditioned; ISO 179/1eU

Mechanical Properties	@Temperature 30.0 °C Metric	@Temperature 86.0 °F English	Comments
Charpy Impact, Notched	1.00 J/cm <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	dry; ISO 179/1eA
	1.10 J/cm <sup>2</sup>	5.23 ft-lb/in <sup>2</sup>	conditioned; ISO 179/1eA
	0.700 J/cm <sup>2</sup>	3.33 ft-lb/in <sup>2</sup>	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	0.700 J/cm <sup>2</sup>	3.33 ft-lb/in <sup>2</sup>	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

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	80.0 µm/m-°C	44.4 µin/in-°F	ISO 11359-1/-2
Melting Point	260 °C	500 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	130 - 150 °C	266 - 302 °F	long term; EMS
	230 °C	446 °F	short term; EMS
Deflection Temperature at 1.8 MPa (264 psi)	225 °C	437 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	155 °C	311 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+11 ohm-cm	1.00e+11 ohm-cm	conditioned; IEC 60093
	1.00e+12 ohm-cm	1.00e+12 ohm-cm	dry; IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Strength	34.0 kV/mm	864 kV/in	conditioned; IEC 60243-1
	38.0 kV/mm	965 kV/in	dry; IEC 60243-1
Comparative Tracking Index	500 V	500 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Air intake systems	
Form	Granules	
Processing	Extrusion - blow molding	

Descriptive Properties	Injection Molding Value	Comments
	Other Extrusion	
Product Attributes	Nanocomposite	
Special Characteristics	Improved heat resistance	

## Contact Songhan Plastic Technology Co.,Ltd.

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