

## EMS-Grivory Grivory® EBV-2H PA6-GF20

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 20% Glass Fiber Filled

### Material Notes:

Product description: Grilon EBV-2H is a high viscosity, heat stabilized PA6 extrusion blow molding grade with 20% glass fibers. Grilon EBV-2H has the following important properties: High melt strength Impact resistant even at low temperatures Easy processing Processable on conventional as well as on 3 D-machines Suitable for sequential blow molding process in combination with flexible grades Grilon EBV-2H is used typically for automotive applications such are air ducts for turbo-chargers, air ducts, oil filler pipes, fuel and oil containers. Information provided by EMS Grivory

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_EMS-Grivory-Grivory-EBV-2H-PA6-GF20.php](http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-EBV-2H-PA6-GF20.php)

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in <sup>3</sup>	ISO 1183
Water Absorption	8.0 %	8.0 %	ISO 62
Moisture Absorption	2.50 %	2.50 %	ISO 62

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	75.0 MPa	10900 psi	conditioned; ISO 2039-1
	160 MPa	23200 psi	dry; ISO 2039-1
Tensile Strength at Break	70.0 MPa	10200 psi	conditioned; ISO 527-1/-2
	120 MPa	17400 psi	dry; ISO 527-1/-2
Elongation at Break	4.0 %	4.0 %	dry; ISO 527-1/-2
	15 %	15 %	conditioned; ISO 527-1/-2
Tensile Modulus	3.50 GPa	508 ksi	conditioned; ISO 527-1/-2
	6.50 GPa	943 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	8.00 J/cm <sup>2</sup>	38.1 ft-lb/in <sup>2</sup>	dry; ISO 179/1eU
	NB	NB	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	
	9.00 J/cm <sup>2</sup>	42.8 ft-lb/in <sup>2</sup>	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	1.50 J/cm <sup>2</sup>	7.14 ft-lb/in <sup>2</sup>	dry; ISO 179/1eA

Mechanical Properties	Metric/cm <sup>2</sup>	English/lb/in <sup>2</sup>	Comments; ISO 179/1eA
	0.600 J/cm <sup>2</sup> @Temperature 30.0 °C	2.86 ft-lb/in <sup>2</sup> @Temperature 86.0 °F	dry; ISO 179/1eU
	0.800 J/cm <sup>2</sup> @Temperature 30.0 °C	3.81 ft-lb/in <sup>2</sup> @Temperature 86.0 °F	conditioned; ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 µm/m-°C	16.7 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	120 µm/m-°C	66.7 µin/in-°F	ISO 11359-1/-2
Melting Point	222 °C	432 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	100 - 120 °C	212 - 248 °F	long term; EMS
	180 °C	356 °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	65.0 °C	149 °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+13 ohm-cm	1.00e+13 ohm-cm	dry; IEC 60093
Surface Resistance	1.00e+10 ohm	1.00e+10 ohm	IEC 60093
Dielectric Strength	27.0 kV/mm	686 kV/in	conditioned; IEC 60243-1
	30.0 kV/mm	762 kV/in	dry; IEC 60243-1

Descriptive Properties	Value	Comments
Automotive	Air intake sytems	
	Cooling and climate control	
Electricals & Electronics	Cables & Tubes	
Form	Granules	
Industry & Consumer goods	Hydraulics & Pneumatics	
Processing	Extrusion - blow molding	

Descriptive Properties	Value Other Extrusion	Comments
Special Characteristics	High impact or impact modified	
	Improved heat resistance	

## Contact Songhan Plastic Technology Co.,Ltd.

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