

EMS-Grivory Grivory® EBV-15H black 9697 PA6-GF15

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

Material Notes:

Product description: Grilon EBV-15H black 9697 is a high viscosity, heat stabilized PA6 extrusion blow molding grade with 15% glass fibers. Grilon EBV-15H black 9697 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-15H black 9697 is used typically for automotive applications such are air ducts for turbochargers, 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-15H-black-9697-PA6-GF15.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	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	70.0 MPa	10200 psi	conditioned; ISO 2039-1
	145 MPa	21000 psi	dry; ISO 2039-1
Tensile Strength at Break	65.0 MPa	9430 psi	conditioned; ISO 527-1/-2
	110 MPa	16000 psi	dry; ISO 527-1/-2
Elongation at Break	5.0 %	5.0 %	dry; ISO 527-1/-2
	25 %	25 %	conditioned; ISO 527-1/-2
Tensile Modulus	2.70 GPa	392 ksi	conditioned; ISO 527-1/-2
	5.60 GPa	812 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	8.00 J/cm ²	38.1 ft-lb/in ²	dry; ISO 179/1eU
	NB	NB	conditioned; ISO 179/1eU
	8.00 J/cm ² @Temperature 30.0 °C	38.1 ft-lb/in ² @Temperature 86.0 °F	dry; ISO 179/1eU
Charpy Impact Unnotched	8.00 J/cm ² @Temperature 30.0 °C	38.1 ft-lb/in ² @Temperature 86.0 °F	conditioned; ISO 179/1eU
	1.50 J/cm ²	7.14 ft-lb/in ²	dry; ISO 179/1eA

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

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	50.0 µm/m-°C	27.8 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)	165 °C	329 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	50.0 °C	122 °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	22.0 kV/mm	559 kV/in	conditioned; IEC 60243-1
	26.0 kV/mm	660 kV/in	dry; IEC 60243-1
Comparative Tracking Index	325 V	325 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Air intake systems	
	Cooling and climate control	
Electricals & Electronics	Cables & Tubes	
Form	Granules	
Industry & Consumer goods	Hydraulics & Pneumatics	

Descriptive Properties	Value	Comments
Processing	Extrusion - blow molding	
	Other Extrusion	
Special Characteristics	Improved heat resistance	

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