

EMS-Grivory Grivory® EB 50 H PA6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Product description: Grilon EB 50 H is a high viscosity, unreinforced, heat stabilized PA6 extrusion blow moulding grade. Grilon EB 50 H has the following important properties: High melt strengthImpact resistant even at low temperaturesProcessable on conventional as well as on 3 D-machines Grilon EB 50 H 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-EB-50-H-PA6.php

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in³	ISO 1183
Water Absorption	9.0 %	9.0 %	ISO 62
Moisture Absorption	3.00 %	3.00 %	ISO 62

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	55.0 MPa	7980 psi	conditioned; ISO 2039-1
	135 MPa	19600 psi	dry; ISO 2039-1
Tensile Strength at Break	50.0 MPa	7250 psi	dry; ISO 527-1/-2
	50.0 MPa	7250 psi	conditioned; ISO 527-1/-2
Tensile Strength, Yield	40.0 MPa	5800 psi	dry; ISO 527-1/-2
	75.0 MPa	10900 psi	dry; ISO 527-1/-2
Elongation at Break	>= 50 %	>= 50 %	conditioned; ISO 527-1/-2
	<= 50 %	<= 50 %	dry; ISO 527-1/-2
Elongation at Yield	4.0 %	4.0 %	dry; ISO 527-1/-2
	20 %	20 %	conditioned; ISO 527-1/-2
Tensile Modulus	0.800 GPa	116 ksi	conditioned; ISO 527-1/-2
	2.80 GPa	406 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	NB	NB	dry; ISO 179/1eU
	NB	NB	conditioned; ISO 179/1eU
	NB	NB	dry; ISO 179/1eU

Mechanical Properties	@Temperature 30.0 °C Metric	@Temperature 86.0 °F English	Comments
	NB	NB	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	1.10 J/cm²	5.23 ft-lb/in²	dry; ISO 179/1eA
	NB	NB	conditioned; ISO 179/1eA
	0.900 J/cm²	4.28 ft-lb/in²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	1.00 J/cm²	4.76 ft-lb/in²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 µm/m-°C	50.0 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 0.46 MPa (66 psi)	140 °C	284 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °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	24.0 kV/mm	610 kV/in	conditioned; IEC 60243-1
	28.0 kV/mm	711 kV/in	dry; IEC 60243-1
Comparative Tracking Index	425 V	425 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Air intake sytems	

Descriptive Properties	Value	Comments
Electricals & Electronics	Cables & Tubes	
Form	Granules	
Industry & Consumer goods	Hydraulics & Pneumatics	
Processing	Extrusion - blow molding	
	Other Extrusion	
Special Characteristics	Improved heat resistance	

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