

EMS-Grivory Grivory® HT2VZ-15H PA6T/66-GF15

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/6, 20% Glass Fiber Reinforced

Material Notes:

Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-HT2VZ-15H-PA6T66-GF15.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ISO 1183
Water Absorption	5.5 %	5.5 %	ISO 62
Moisture Absorption	2.00 %	2.00 %	ISO 62
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	82	82	conditioned, 15s; ISO 868
	84	84	dry, 15s; ISO 868
Tensile Strength at Break	100 MPa	14500 psi	conditioned; ISO 527-1/-2
	125 MPa	18100 psi	dry; ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	dry; ISO 527-1/-2
	3.5 %	3.5 %	conditioned; ISO 527-1/-2
Tensile Modulus	6.00 GPa	870 ksi	conditioned; ISO 527-1/-2
	6.00 GPa	870 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	5.50 J/cm ²	26.2 ft-lb/in ²	conditioned; ISO 179/1eU
	6.50 J/cm ²	30.9 ft-lb/in ²	dry; ISO 179/1eU
	4.00 J/cm ² @Temperature 30.0 °C	19.0 ft-lb/in ² @Temperature 86.0 °F	conditioned; ISO 179/1eU
Charpy Impact, Notched	4.50 J/cm ² @Temperature 30.0 °C	21.4 ft-lb/in ² @Temperature 86.0 °F	dry; ISO 179/1eU
	1.00 J/cm ²	4.76 ft-lb/in ²	dry; ISO 179/1eA
	1.00 J/cm ²	4.76 ft-lb/in ²	conditioned; ISO 179/1eA

Mechanical Properties	Metric	English	Comments
	0.500 J/cm ²	2.38 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	0.500 J/cm ²	2.38 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	30.0 µm/m-°C	16.7 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	75.0 µm/m-°C	41.7 µin/in-°F	ISO 11359-1/-2
Melting Point	310 °C	590 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	140 °C	284 °F	long term; EMS
	240 °C	464 °F	short term; EMS
Deflection Temperature at 1.8 MPa (264 psi)	265 °C	509 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	100 °C	212 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	dry; IEC 60093
	1.00e+12 ohm-cm	1.00e+12 ohm-cm	conditioned; IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Strength	32.0 kV/mm	813 kV/in	conditioned; IEC 60243-1
	33.0 kV/mm	838 kV/in	dry; IEC 60243-1
Comparative Tracking Index	575 V	575 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Air intake systems	
	Compressed air systems	
	Fuel systems	
	Hydraulic systems	
	Interior	

Descriptive Properties	Powertrain and Chassis Value	Comments
Electricals & Electronics	Connectors	
	Electrical appliances	
	Electrical equipment	
	Energy distribution	
	Mobile phones and other portable devices	
Form	Granules	
Industry & Consumer goods	Hydraulics & Pneumatics	
	Mechanical Engineering	
	Power transmission	
	Tools & Accessories	
Processing	Injection Molding	
Product Attributes	Co Polyamide	
	Improved alcohol resistance	
	Partially aromatic Polyamide	
Special Characteristics	High impact or impact modified	
	Improved heat resistance	

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