

EMS-Grivory Grivory® HT2V-45H PA6T/66-GF45

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/6 , 40% Glass Fiber Reinforced

Material Notes:

Grivory HT2V-45H is a 45% glass fiber reinforced engineering thermoplastic material based on a semi-crystalline, partially aromatic copolyamide. Polymer designation acc. to ISO: PA 6T/66 Acc. to ASTM: PPA, polyphthalamide. The main distinguishing feature of Grivory HT, when compared to other polyamides, is its good performance at high temperatures providing parts which are stiffer, stronger and have better heat distortion stability and chemical resistance. Grivory HT is suitable for production of technical parts in the application fields of: ElectroElectronicsAutomotiveSafety technologyMechanical engineeringInformation provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-HT2V-45H-PA6T66-GF45.php

Physical Properties	Metric	English	Comments
Density	1.56 g/cc	0.0564 lb/in ³	ISO 1183
Water Absorption	4.0 %	4.0 %	ISO 62
Moisture Absorption	1.40 %	1.40 %	ISO 62
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 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	310 MPa	45000 psi	dry; ISO 2039-1
	310 MPa	45000 psi	conditioned; ISO 2039-1
Tensile Strength at Break	220 MPa	31900 psi	conditioned; ISO 527-1/-2
	240 MPa	34800 psi	dry; ISO 527-1/-2
Elongation at Break	2.2 %	2.2 %	dry; ISO 527-1/-2
	2.2 %	2.2 %	conditioned; ISO 527-1/-2
Tensile Modulus	15.5 GPa	2250 ksi	conditioned; ISO 527-1/-2
	16.0 GPa	2320 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	6.50 J/cm ²	30.9 ft-lb/in ²	dry; ISO 179/1eU
	6.50 J/cm ²	30.9 ft-lb/in ²	conditioned; ISO 179/1eU
	6.00 J/cm ²	28.6 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	6.00 J/cm ²	28.6 ft-lb/in ²	

Mechanical Properties	Metric @ Temperature 30.0 °C	English @ Temperature 86.0 °F	Comments conditioned; ISO 179/1eU
Charpy Impact, Notched	1.10 J/cm ²	5.23 ft-lb/in ²	dry; ISO 179/1eA
	1.10 J/cm ²	5.23 ft-lb/in ²	conditioned; ISO 179/1eA
	0.900 J/cm ² @Temperature 30.0 °C	4.28 ft-lb/in ² @Temperature 86.0 °F	conditioned; ISO 179/1eU
	1.00 J/cm ² @Temperature 30.0 °C	4.76 ft-lb/in ² @Temperature 86.0 °F	dry; ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	15.0 µm/m-°C	8.33 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	60.0 µm/m-°C	33.3 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)	280 °C	536 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	235 °C	455 °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	38.0 kV/mm	965 kV/in	dry; IEC 60243-1
	38.0 kV/mm	965 kV/in	conditioned; IEC 60243-1
Comparative Tracking Index	600 V	600 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Exterior	
	Fuel systems	
	Interior	

Descriptive Properties	Value	Comments
	Powertrain and Chassis	
Form	Granules	
Industry & Consumer goods	Housewares	
	Hydraulics & Pneumatics	
	Mechanical Engineering	
	Power transmission	
	Sports & Leisure	
	Tools & Accessories	
Processing	Injection Molding	
Special Characteristics	Improved heat resistance	
	Improved UV resistance (outdoor use)	

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