EMS-Grivory Grivory® HTM-4H1 PA6T/6I-MD40

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 40% Mineral Filled

Material Notes:

Product description: Grivory HTM-4H1 is a 40 % mineral reinforced engineering thermoplastic material based on a semi-crystalline, partially aromatic copolyamide. Polymer designation acc. to ISO: PA 6T/6I. Acc. to ASTM: PPA, Polyphthalamide Grivory HTM-4H1 is used for injection molding technical parts. Properties are almost isotropic and strength is outstanding compared to other mineral filled materials. The main distinguishing feature of Grivory HT, when compared to other polyamides, is its good performance values 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:ElectroElectronicsAutomotiveMechanical engineeringInformation provided by EMS Grivory

Order this product through the following link:
http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-HTM-4H1-PA6T6I-MD40.php

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in³	ISO 1183
Water Absorption	3.5 %	3.5 %	ISO 62
Moisture Absorption	1.50 %	1.50 %	ISO 62
Linear Mold Shrinkage, Flow	0.0070 cm/cm	0.0070 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	260 MPa	37700 psi	dry; ISO 2039-1
	260 MPa	37700 psi	conditioned; ISO 2039-1
Tensile Strength at Break	105 MPa	15200 psi	dry; ISO 527-1/-2
	105 MPa	15200 psi	conditioned; ISO 527-1/-2
Elongation at Break	1.5 %	1.5 %	dry; ISO 527-1/-2
	1.5 %	1.5 %	conditioned; ISO 527-1/-2
Tensile Modulus	7.50 GPa	1090 ksi	conditioned; ISO 527-1/-2
	7.50 GPa	1090 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	5.00 J/cm²	23.8 ft-lb/in²	dry; ISO 179/1eU
	5.00 J/cm²	23.8 ft-lb/in²	conditioned; ISO 179/1eU
	2.00 J/cm²	9.52 ft-lb/in²	dry; ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	2.50 J/cm² @Temperature 30.0 °C	11.9 ft-lb/in² @Temperature 86.0 °F	conditioned; ISO 179/1eU
Charpy Impact, Notched	0.500 J/cm²	2.38 ft-lb/in²	dry; ISO 179/1eA
	0.500 J/cm²	2.38 ft-lb/in²	conditioned; ISO 179/1eA
	0.300 J/cm² @Temperature 30.0 °C	1.43 ft-lb/in² @Temperature 86.0 °F	dry; ISO 179/1eU
	0.400 J/cm² @Temperature 30.0 °C	1.90 ft-lb/in² @Temperature 86.0 °F	conditioned; ISO 179/1eU

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	50.0 µm/m-°C	27.8 µin/in-°F	ISO 11359-1/-2
Melting Point	325 °C	617 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	140 °C	284 °F	long term; EMS
	250 °C	482 °F	short term; EMS
Deflection Temperature at 1.8 MPa (264 psi)	145 °C	293 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	115 °C	239 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	dry; IEC 60093
	1.00e+13 ohm-cm	1.00e+13 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	dry; IEC 60243-1
	32.0 kV/mm	813 kV/in	conditioned; IEC 60243-1
Comparative Tracking Index	575 V	575 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Fuel systems	

Descriptive Properties	Value	Comments
	Interior 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	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China