

EMS-Grivory Grivory® HT1V-4 FWA nat PA6T/6I-GF40

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , 40% Glass Fiber Filled

Material Notes:

Product description: Grivory HT1V-4 FWA natural is a 40 wt.-% glass fiber reinforced engineering thermoplastic material based on a semi-crystalline, partially aromatic copolyamide. Acc. to ISO: PA 6T/6I Acc. to ASTM: PPA, polyphthalamide Grivory HT1V-4 FWA natural is an injection molding material. 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 HT1V-4 FWA natural is suitable for all engineering thermoplastic applications with the requirement of approvals in contact with food and/or drinking water. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-HT1V-4-FWA-nat-PA6T6I-GF40.php

Physical Properties	Metric	English	Comments
Density	1.53 g/cc	0.0553 lb/in ³	ISO 1183
Water Absorption	3.5 %	3.5 %	ISO 62
Moisture Absorption	1.50 %	1.50 %	ISO 62
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	300 MPa	43500 psi	conditioned; ISO 2039-1
	310 MPa	45000 psi	dry; ISO 2039-1
Tensile Strength at Break	210 MPa	30500 psi	conditioned; ISO 527-1/-2
	220 MPa	31900 psi	dry; ISO 527-1/-2
Elongation at Break	2.0 %	2.0 %	dry; ISO 527-1/-2
	2.0 %	2.0 %	conditioned; ISO 527-1/-2
Tensile Modulus	14.0 GPa	2030 ksi	conditioned; ISO 527-1/-2
	14.5 GPa	2100 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	7.00 J/cm ²	33.3 ft-lb/in ²	dry; ISO 179/1eU
	7.00 J/cm ²	33.3 ft-lb/in ²	conditioned; ISO 179/1eU
	7.00 J/cm ² @Temperature 30.0 °C	33.3 ft-lb/in ² @Temperature 86.0 °F	dry; ISO 179/1eU

Mechanical Properties	Metric ¹ /cm ²	English ^{1b} /in ²	Comments
	@Temperature 30.0 °C	@Temperature 86.0 °F	conditioned; ISO 179/1eU
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	dry; ISO 179/1eA
	0.800 J/cm ²	3.81 ft-lb/in ²	conditioned; ISO 179/1eA
	0.800 J/cm ²	3.81 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	15.0 µm/m-°C	8.33 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)	280 °C	536 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	175 °C	347 °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	35.0 kV/mm	889 kV/in	dry; IEC 60243-1
	35.0 kV/mm	889 kV/in	conditioned; IEC 60243-1
Comparative Tracking Index	600 V	600 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Food contact	EU Requirements	
	FDA	

Descriptive Properties	Value ¹	Comments
Form	Granules	
Industry & Consumer goods	Housewares	
	Medical devices	
	Sanitary, water and gas supply	
Processing	Injection Molding	
Product Attributes	Hydrolysis resistant	
Water Contact	ACS	
	DVGW W270	
	KTW	
	NSF 61	
	WRAS	

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