

EMS-Grivory Grivory® GV-4 FWA nat PA*-GF40

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Product description: Grivory GV-4 FWA natural is a 40% glass fiber reinforced engineering thermoplastic material based on a combination of semi-crystalline Polyamide with partially aromatic copolyamide. Grivory GV-4 FWA natural is used for injection moulding technical parts, exhibiting exceptional characteristics even after moisture absorption: high stiffness and strength dimensional stability, low warpage good chemical resistance good surface finish Grivory GV is the economical alternative to die-cast alloys. Grivory GV-4 FWA natural is a specially heat stabilized material. It is particularly suitable for parts in direct contact with drinking water and food. Grivory GV-4 FWA natural is suitable for all engineering thermoplastic applications with the requirement of approvals in contact with foodstuffs or/and in contact with drinking water. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-GV-4-FWA-nat-PA-GF40.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in ³	ISO 1183
Water Absorption	4.5 %	4.5 %	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	0.0060 cm/cm	0.0060 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	230 MPa	33400 psi	conditioned; ISO 2039-1
	255 MPa	37000 psi	dry; ISO 2039-1
Tensile Strength at Break	210 MPa	30500 psi	conditioned; ISO 527-1/-2
	230 MPa	33400 psi	dry; ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	dry; ISO 527-1/-2
	3.0 %	3.0 %	conditioned; ISO 527-1/-2
Tensile Modulus	13.0 GPa	1890 ksi	conditioned; ISO 527-1/-2
	14.0 GPa	2030 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	9.00 J/cm ²	42.8 ft-lb/in ²	dry; ISO 179/1eU
	9.00 J/cm ²	42.8 ft-lb/in ²	conditioned; ISO 179/1eU
	7.00 J/cm ²	33.3 ft-lb/in ²	dry; ISO 179/1eU

Mechanical Properties	@Temperature 30.0 °C Metric	@Temperature 86.0 °F English	Comments
	7.00 J/cm ²	33.3 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	1.30 J/cm ²	6.19 ft-lb/in ²	dry; ISO 179/1eA
	1.30 J/cm ²	6.19 ft-lb/in ²	conditioned; ISO 179/1eA
	1.10 J/cm ²	5.23 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	1.10 J/cm ²	5.23 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	90.0 µm/m-°C	50.0 µin/in-°F	ISO 11359-1/-2
Melting Point	260 °C	500 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	100 - 120 °C	212 - 248 °F	long term; EMS
	220 °C	428 °F	short term; EMS
Deflection Temperature at 1.8 MPa (264 psi)	235 °C	455 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	145 °C	293 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	dry; IEC 60093
	1.00e+14 ohm-cm	1.00e+14 ohm-cm	conditioned; IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Strength	33.0 kV/mm	838 kV/in	dry; IEC 60243-1
	33.0 kV/mm	838 kV/in	conditioned; IEC 60243-1
Comparative Tracking Index	600 V	600 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Food contact	EU Requirements	

Descriptive Properties	FDA Value	Comments
Form	Granules	
Industry & Consumer goods	Housewares	
	Hydraulics & Pneumatics	
	Mechanical Engineering	
	Power transmission	
	Sanitary, water and gas supply	
Processing	Injection Molding	
Product Attributes	Partially aromatic Polyamide	
Water Contact	ACS	
	DVGW W270	
	KTW	
	NSF 61	
	WRAS	

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