

EMS-Grivory Grivory® LBV-30H FWA black 9225 PA12-GF30

Category : Polymer , Thermoplastic , Nylon , Nylon 12 , Nylon 12, 30% Glass Fiber Filled

Material Notes:

Product Description: Grilamid LBV-30H FWA black 9225 is a 30% glass fiber reinforced, heat stabilized polyamide 12 injection molding grade with the following special features: Stiffness combined with high toughness Very high elongation Very low water absorption Hydrolysis and chemical resistance Easy processing, particularly suitable for very thin- or very thick-walled moldings The special composition of Grilamid LBV 30H FWA black 9225 makes it suitable for direct contact with potable water up to 85°C as well as foodstuff.

Application examples: Grilamid LBV-30H FWA black 9225 is designed for applications predominantly in the following application fields: Robust valves and fittings for water and gas supply. Taps, fittings, meters, pumps in sanitary equipment Domestic appliances and household goods Components in the food processing industry Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-LBV-30H-FWA-black-9225-PA12-GF30.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	ISO 1183
Water Absorption	1.1 %	1.1 %	ISO 62
Moisture Absorption	0.600 %	0.600 %	ISO 62
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	83	83	conditioned, 15s; ISO 868
Ball Indentation Hardness	155 MPa	22500 psi	conditioned; ISO 2039-1
Tensile Strength at Break	120 MPa	17400 psi	conditioned; ISO 527-1/-2
	130 MPa	18900 psi	dry; ISO 527-1/-2
Elongation at Break	6.0 %	6.0 %	dry; ISO 527-1/-2
	6.0 %	6.0 %	conditioned; ISO 527-1/-2
Tensile Modulus	7.50 GPa	1090 ksi	conditioned; ISO 527-1/-2
	8.00 GPa	1160 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	9.00 J/cm ²	42.8 ft-lb/in ²	conditioned; ISO 179/1eU
	10.0 J/cm ²	47.6 ft-lb/in ²	dry; ISO 179/1eU
	9.00 J/cm ²	42.8 ft-lb/in ²	conditioned; ISO 179/1eU

Mechanical Properties	@Temperature 30.0 °C Metric	@Temperature 86.0 °F English	Comments
	10.0 J/cm²	47.6 ft-lb/in²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	1.50 J/cm²	7.14 ft-lb/in²	dry; ISO 179/1eA
	1.50 J/cm²	7.14 ft-lb/in²	conditioned; ISO 179/1eA
	1.00 J/cm²	4.76 ft-lb/in²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	1.00 J/cm²	4.76 ft-lb/in²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 µm/m-°C	11.1 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	100 µm/m-°C	55.6 µin/in-°F	ISO 11359-1/-2
Melting Point	178 °C	352 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	90.0 - 120 °C	194 - 248 °F	long term; EMS
	150 °C	302 °F	short term; EMS
Deflection Temperature at 1.8 MPa (264 psi)	155 °C	311 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	90.0 °C	194 °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	conditioned; IEC 60093
Surface Resistance	1.00e+11 ohm	1.00e+11 ohm	IEC 60093
Dielectric Strength	45.0 kV/mm	1140 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	
Form	Granules	

Industry & Consumer goods Descriptive Properties	Heating systems Value	Comments
	Sanitary, water and gas supply	
Processing	Injection Molding	
Product Attributes	Hydrolysis resistant	
Special Characteristics	High impact or impact modified	
	Improved heat resistance	
	Improved UV resistance (outdoor use)	
Water Contact	ACS	
	DVGW W270	
	KTW	
	NSF 61	
	WRAS	

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