

## EMS-Grivory Grivory® LV-65H FWA black 9225 PA12-GF65

Category : Polymer , Thermoplastic , Nylon , Nylon 12 , Nylon 12, 50% Glass Fiber Filled

### Material Notes:

Product description: Grilamid LV-65H FWA black 9225 is a 65 % glass fiber reinforced, heat stabilized polyamide 12 injection molding grade with the following special features: High stiffness combined with good toughness High elongation Very low water absorption Hydrolysis and chemical resistance Easy processing, especially suitable for thick-walled moldings The special composition of Grilamid LV-65H FWA black 9225 makes it suitable for potable water as well as food contact. Application examples: Grilamid LV-65H 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-LV-65H-FWA-black-9225-PA12-GF65.php](http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-LV-65H-FWA-black-9225-PA12-GF65.php)

Physical Properties	Metric	English	Comments
Density	1.65 g/cc	0.0596 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.80 %	0.80 %	ISO 62
Moisture Absorption	0.400 %	0.400 %	ISO 62
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0040 cm/cm	0.0040 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	conditioned, 15s; ISO 868
Ball Indentation Hardness	185 MPa	26800 psi	conditioned; ISO 2039-1
Tensile Strength at Break	160 MPa	23200 psi	conditioned; ISO 527-1/-2
	170 MPa	24700 psi	dry; ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	dry; ISO 527-1/-2
	3.5 %	3.5 %	conditioned; ISO 527-1/-2
Tensile Modulus	17.0 GPa	2470 ksi	conditioned; ISO 527-1/-2
	18.0 GPa	2610 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	6.00 J/cm <sup>2</sup>	28.6 ft-lb/in <sup>2</sup>	conditioned; ISO 179/1eU
	6.00 J/cm <sup>2</sup> @Temperature 30.0 °C	28.6 ft-lb/in <sup>2</sup> @Temperature 86.0 °F	conditioned; ISO 179/1eU

Charpy Impact, Notched Mechanical Properties	1.50 J/cm <sup>2</sup> Metric	7.14 ft-lb/in <sup>2</sup> English	conditioned; ISO 179/1eA Comments
	1.50 J/cm <sup>2</sup>	7.14 ft-lb/in <sup>2</sup>	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	120 µm/m-°C	66.7 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
	160 °C	320 °F	short term; EMS
Deflection Temperature at 1.8 MPa (264 psi)	170 °C	338 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	140 °C	284 °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	conditioned; IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Strength	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	
	NSF 51	
Form	Granules	
Industry & Consumer goods	Heating systems	
	Housewares	
	Sanitary, water and gas supply	
Processing	Injection Molding	
Product Attributes	Hydrolysis resistant	

Descriptive Properties Special Characteristics	Value High Impact or impact modified	Comments
	Improved heat resistance	
	Improved UV resistance (outdoor use)	
Water Contact	ACS	
	DVGW W270	
	KTW	
	NSF 61	
	WRAS	

## Contact Songhan Plastic Technology Co.,Ltd.

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