

EMS-Grivory Grivory® L 20H FWA black 9225 PA12

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

Product Description Grilamid L 20 H FWA black 9225 is a medium viscosity, unreinforced and heat stabilized Polyamide 12 (PA12). Grilamid L 20 H FWA black 9225 is used for technical injection molded parts, and is in particular suitable for parts with low to medium wall thicknesses. This material allows further the molding of thick articles with walls up to 15 mm. high impact strength high elongation at break very low moisture absorption good chemical resistance easy processing low density The particular stabilization package of Grilamid L 20 H FWA black 9225 allows the use in direct contact with potable water and foodstuff. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-L-20H-FWA-black-9225-PA12.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in ³	ISO 1183
Water Absorption	1.5 %	1.5 %	ISO 62
Moisture Absorption	0.700 %	0.700 %	ISO 62
Linear Mold Shrinkage, Flow	0.0080 cm/cm	0.0080 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
Hardness, Shore D	70	70	conditioned, 15s; ISO 868
Tensile Strength, Yield	40.0 MPa	5800 psi	
Elongation at Break	>= 50 %	>= 50 %	conditioned; ISO 527-1/-2
Elongation at Yield	12 %	12 %	conditioned; ISO 527-1/-2
Tensile Modulus	1.10 GPa	160 ksi	conditioned; ISO 527-1/-2
Charpy Impact Unnotched	NB	NB	conditioned; ISO 179/1eU
	NB	NB	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	0.700 J/cm ²	3.33 ft-lb/in ²	conditioned; ISO 179/1eA
	0.600 J/cm ²	2.86 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Thermal Properties	Metric	English	Comments
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CTE, linear, Parallel to Flow Thermal Properties	120 µm/m-°C Metric	66.7 µin/in-°F English	ISO 11359-1/-2 Comments
CTE, linear, Transverse to Flow	140 µm/m-°C	77.8 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 - 100 °C	194 - 212 °F	long term; EMS
	150 °C	302 °F	short term; EMS
Deflection Temperature at 0.46 MPa (66 psi)	115 °C	239 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	45.0 °C	113 °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	32.0 kV/mm	813 kV/in	conditioned; IEC 60243-1
Comparative Tracking Index	600 V	600 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Food contact	EU Requirements	
	NSF 51	
Form	Granules	
Industry & Consumer goods	Heating systems	
	Housewares	
	Sanitary, water and gas supply	
Medical	FDA	
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	

Descriptive Properties	Value	Comments
	DVGV W270	
	KTW	
	NSF 61	
	WRAS	

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