

EMS-Grivory Grivory® L 25H FWA nat PA12

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

Product Description: Grilamid L 25 H FWA natural is a highviscosity, unreinforced and heat stabilized Polyamide 12 (PA12). Grilamid L 25 H FWA natural is designed for technical injection moulded components and is in particular suitable for parts with medium or high wall thicknesses. The maximum wall thickness can largely exceed 15 mm. high impact strengthhigh elongationvery low moisture absorptiongood chemical resistancehigh melt viscosityeasy processinglow density Application examples: The particular stabilisation package of Grilamid L 25 H FWA natural 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-25H-FWA-nat-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	0.0090 cm/cm	0.0090 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 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	1.00 J/cm ²	4.76 ft-lb/in ²	conditioned; ISO 179/1eA
	0.700 J/cm ²	3.33 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	120 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	66.7 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ISO 11359-1/-2
CTE, linear, Transverse to Flow	140 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	77.8 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ISO 11359-1/-2
Melting Point	178 $^{\circ}\text{C}$	352 $^{\circ}\text{F}$	10 $^{\circ}\text{C}/\text{min}$; ISO 11357-1/-3
Maximum Service Temperature, Air	100 - 120 $^{\circ}\text{C}$	212 - 248 $^{\circ}\text{F}$	long term; EMS
	150 $^{\circ}\text{C}$	302 $^{\circ}\text{F}$	short term; EMS
Deflection Temperature at 0.46 MPa (66 psi)	115 $^{\circ}\text{C}$	239 $^{\circ}\text{F}$	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	45.0 $^{\circ}\text{C}$	113 $^{\circ}\text{F}$	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	
	FDA	
	NSF 51	
Form	Granules	
Industry & Consumer goods	Heating systems	
	Housewares	
	Sanitary, water and gas supply	
Processing	Injection Molding	
Product Attributes	Hydrolysis resistant	
Special Characteristics	High impact or impact modified	
	Improved heat resistance	

Descriptive Properties	Value	Comments
Water Contact	ACS	
	DVGW W270	
	KTW	
	NSF 61	
	WRAS	

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