

EMS-Grivory Grivory® L 16 LM PA12

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

Product Description: Grilamid L 16 LM is a , low viscosity extrusion type, based on Polyamide 12 (PA12). Grilamid L 16 LM is UV- and heat stabilized. The modification with a nucleation agent results in a low post crystallization and low post shrinkage. The special features of Grilamid L 16 LM are: UV- and heat stabilized High abrasion resistance Very good chemical resistance Very good resistance to Oil High surface quality Good dimensional stability High processing speed Low density, low weight Application examples: Grilamid L 16 LM is especially suitable for high speed extrusion of thin walled sheathings for applications such as copper wire insulation or secondary tight coating of optical fibers. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-L-16-LM-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 at Break	50.0 MPa	7250 psi	dry; ISO 527-1/-2
	50.0 MPa	7250 psi	conditioned; ISO 527-1/-2
Tensile Strength, Yield	45.0 MPa	6530 psi	dry; ISO 527-1/-2
	45.0 MPa	6530 psi	dry; ISO 527-1/-2
Elongation at Break	>= 50 %	>= 50 %	conditioned; ISO 527-1/-2
	<= 50 %	<= 50 %	dry; ISO 527-1/-2
Elongation at Yield	5.0 %	5.0 %	dry; ISO 527-1/-2
	15 %	15 %	conditioned; ISO 527-1/-2
Tensile Modulus	1.10 GPa	160 ksi	conditioned; ISO 527-1/-2
	1.50 GPa	218 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	NB	NB	dry; ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	NB	NB	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	dry; ISO 179/1eU
	NB	NB	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	conditioned; ISO 179/1eU
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	conditioned; ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	120 µm/m-°C	66.7 µin/in-°F	ISO 11359-1/-2
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 - 110 °C	194 - 230 °F	long term; EMS
	150 °C	302 °F	short term; EMS
Deflection Temperature at 0.46 MPa (66 psi)	125 °C	257 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	50.0 °C	122 °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
Electricals & Electronics	Cables & Tubes	
	Connectors	
	Electrical equipment	

Form Descriptive Properties	Granules Value	Comments
Industry & Consumer goods	Hydraulics & Pneumatics	
	Mechanical Engineering	
	Sports & Leisure	
	Tools & Accessories	
Processing	Injection Molding	
	Other Extrusion	
Product Attributes	Improved flowability and demoulding	
	Nucleated	
Special Characteristics	Improved heat resistance	
	Improved UV resistance (outdoor use)	
	Light stabilized or stable to light	

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