

EMS-Grivory Grivory® L 16 GM nat PA12

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

Grilamid L16 GM is a low-viscosity, non-reinforced PA 12 grade, UV- and heat-stabilized. The modification with a crystallization regulator causes a quick freeze and a fine, crystalline structure. Due to its good flowability, Grilamid L16 GM is especially suitable for thinwalled injection molding applications. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-L-16-GM-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	0.400 %	0.400 %	ISO 62

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	70.0 MPa	10200 psi	conditioned; ISO 2039-1
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
	NB	NB	conditioned; ISO 179/1eU
	NB	NB	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	NB	NB	conditioned; ISO 179/1eU

Mechanical Properties	@Temperature 30.0 °C Metric	@Temperature 86.0 °F English	Comments
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	conditioned; ISO 179/1eA
	0.500 J/cm ²	2.38 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Thermal Properties	Metric	English	Comments
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
	140 °C	284 °F	short term; EMS
Deflection Temperature at 0.46 MPa (66 psi)	130 °C	266 °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+14 ohm-cm	1.00e+14 ohm-cm	conditioned; IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	3.0	3.0	conditioned; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
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	Connectors	
	Electrical equipment	
Form	Granules	
Industry & Consumer goods	Housewares	
	Hydraulics & Pneumatics	
	Mechanical Engineering	
	Sports & Leisure	

Descriptive Properties	Tools & Accessories Value	Comments
Processing	Injection Molding	
Product Attributes	Improved flowability and demoulding	
	Nucleated	
Special Characteristics	Improved heat resistance	

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