

EMS-Grivory Grivory® LV-2A NZ PA12-GF20

Category : Polymer , Thermoplastic , Nylon , Nylon 12 , Nylon 12, 20% Glass Fiber Filled

Material Notes:

Product description: Grilamid LV-2A NZ is a high viscosity polyamide 12 with 20% glass fibers and improved hydrolysis resistance compared to standard polyamide 12 materials. Grilamid LV-2A NZ has a high impact strength even at low temperatures. Due to its very high melt strength, Grilamid LV-2A NZ is particularly well suited for the production of extrusion blow molded articles, especially for large parts. It is processable on conventional as well as on 3D-machines. Grilamid LV-2A NZ is characterized by excellent resistance to most of the media used in automobiles, in particular by its resistance to zinc chloride solutions. In addition the material exhibits an unusually good resistance to hot water and anti-freeze solutions. This product is suitable for technical articles of all kinds, especially for applications in the automotive industry. Examples for possible applications are: Cooling hoses Fuel filler necks Crankcase venting ducts. Grilamid LV-2A NZ key property profile: Polyamide 12 Reinforced with a 20% glass fiber content High hydrolytic stability High impact strength Very high melt strength Suitable for extrusion blow molding technology Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-LV-2A-NZ-PA12-GF20.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	ISO 1183
Water Absorption	1.1 %	1.1 %	ISO 62
Moisture Absorption	0.500 %	0.500 %	ISO 62
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	95.0 MPa	13800 psi	conditioned; ISO 2039-1
Tensile Strength at Break	80.0 MPa	11600 psi	conditioned; ISO 527-1/-2
	85.0 MPa	12300 psi	dry; ISO 527-1/-2
Elongation at Break	10 %	10 %	dry; ISO 527-1/-2
	15 %	15 %	conditioned; ISO 527-1/-2
Tensile Modulus	3.50 GPa	508 ksi	conditioned; ISO 527-1/-2
	4.50 GPa	653 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	10.0 J/cm ²	47.6 ft-lb/in ²	conditioned; ISO 179/1eU
Charpy Impact, Notched	3.00 J/cm ²	14.3 ft-lb/in ²	conditioned; ISO 179/1eA
	2.00 J/cm ²	9.52 ft-lb/in ²	

Mechanical Properties	Metric @ Temperature 30.0 °C	English @ Temperature 86.0 °F	conditioned; ISO 179/1eU Comments
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Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	40.0 µm/m-°C	22.2 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	150 µm/m-°C	83.3 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
	150 °C	302 °F	short term; EMS
Deflection Temperature at 0.46 MPa (66 psi)	160 °C	320 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	130 °C	266 °F	ISO 75-1/-2

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
Automotive	Automotive electr. and electronics, lighting	
	Compressed air systems	
	Powertrain and Chassis	
Electricals & Electronics	Connectors	
	Electrical appliances	
Form	Granules	
Industry & Consumer goods	Housewares	
	Hydraulics & Pneumatics	
	Mechanical Engineering	
	Medical devices	
	Sanitary, water and gas supply	

Descriptive Properties	Value & Leisure	Comments
	Tools & Accessories	
Processing	Injection Molding	
Product Attributes	Hydrolysis resistant	
Special Characteristics	High impact or impact modified	
	Improved UV resistance (outdoor use)	

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