

EMS-Grivory Grivory® L 20A Z PA12

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

Product Description: Grilamid L 20A Z is a medium viscosity product, based on Polyamide 12 (PA12). Grilamid L 20A Z is impact modified, hydrolysis- and heat stabilized. Grilamid L 20A Z is used for production of high valued injection molding parts, and extrusion blow molding parts. The special features of Grilamid L 20A Z are: Hydrolysis- and heat stability Impact resistance at low temperatures Good chemical resistance Good resistance to oil High surface quality Good dimensional stability High processing speed Low density, low weight Application examples: Grilamid L 20A Z is suitable for injection molding parts and extrusion blow molding parts in automotive applications. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-L-20A-Z-PA12.php

Physical Properties	Metric	English	Comments
Density	1.00 g/cc	0.0361 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	0.0070 cm/cm	0.0070 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	70	70	conditioned, 15s; ISO 868
Tensile Strength at Break	45.0 MPa	6530 psi	conditioned; ISO 527-1/-2
Tensile Strength, Yield	30.0 MPa	4350 psi	dry; ISO 527-1/-2
	40.0 MPa	5800 psi	dry; ISO 527-1/-2
Elongation at Break	45 %	45 %	conditioned; ISO 527-1/-2
Elongation at Yield	10 %	10 %	conditioned; ISO 527-1/-2
	15 %	15 %	dry; ISO 527-1/-2
Tensile Modulus	0.900 GPa	131 ksi	conditioned; ISO 527-1/-2
	1.20 GPa	174 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	NB	NB	dry; ISO 179/1eU
	NB	NB	conditioned; ISO 179/1eU
	NB	NB	

Mechanical Properties	Metric @ Temperature 30.0 °C	English @ Temperature 86.0 °F	dry: ISO 179/1eU Comments
Charpy Impact, Notched	NB	NB	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	7.00 J/cm²	33.3 ft-lb/in²	conditioned; ISO 179/1eA
	1.50 J/cm²	7.14 ft-lb/in²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

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)	85.0 °C	185 °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	28.0 kV/mm	711 kV/in	conditioned; IEC 60243-1
Comparative Tracking Index	600 V	600 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Fuel systems	
Electricals & Electronics	Cables & Tubes	
Form	Granules	
Industry & Consumer goods	Hydraulics & Pneumatics	
	Sports & Leisure	

Descriptive Properties	Tools & Accessories Value	Comments
Processing	Other Extrusion	
Special Characteristics	High impact or impact modified	
	Improved heat resistance	
	Improved UV resistance (outdoor use)	

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