

EMS-Grivory Grivory® LV-3 ESD PA12-GF30

Category : Polymer , Thermoplastic , Nylon , Nylon 12 , Nylon 12, 30% Glass Fiber Filled

Material Notes:

Product description: Grilamid LV-3 ESD is an antistatic PA12 injection molding grade, with fiber reinforcement of 30%. Due to its special formulation, the material can be used for applications where electrostatic discharge behavior and good fuel resistance is required.

Application examples: Connectors for fuel systems with antistatic properties. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-LV-3-ESD-PA12-GF30.php

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in ³	ISO 1183
Water Absorption	1.1 %	1.1 %	ISO 62
Moisture Absorption	0.600 %	0.600 %	ISO 62
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 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	81	81	conditioned, 15s; ISO 868
	83	83	dry, 15s; ISO 868
Tensile Strength at Break	110 MPa	16000 psi	conditioned; ISO 527-1/-2
	125 MPa	18100 psi	dry; ISO 527-1/-2
Elongation at Break	5.0 %	5.0 %	dry; ISO 527-1/-2
	7.0 %	7.0 %	conditioned; ISO 527-1/-2
Tensile Modulus	7.00 GPa	1020 ksi	conditioned; ISO 527-1/-2
	7.80 GPa	1130 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	8.00 J/cm ²	38.1 ft-lb/in ²	conditioned; ISO 179/1eU
	8.50 J/cm ²	40.4 ft-lb/in ²	dry; ISO 179/1eU
	6.50 J/cm ²	30.9 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	7.00 J/cm ²	33.3 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Charpy Impact, Notched Mechanical Properties	1.50 J/cm ² Metric	7.14 ft-lb/in ² English	dry; ISO 179/1eA Comments
	1.50 J/cm ²	7.14 ft-lb/in ²	conditioned; ISO 179/1eA
	1.00 J/cm ² @Temperature 30.0 °C	4.76 ft-lb/in ² @Temperature 86.0 °F	dry; ISO 179/1eU
	1.00 J/cm ² @Temperature 30.0 °C	4.76 ft-lb/in ² @Temperature 86.0 °F	conditioned; ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	50.0 µm/m-°C	27.8 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	120 µm/m-°C	66.7 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 1.8 MPa (264 psi)	160 °C	320 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	90.0 °C	194 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+6 ohm-cm	1.00e+6 ohm-cm	dry; IEC 60093
	1.00e+6 ohm-cm	1.00e+6 ohm-cm	conditioned; IEC 60093
Surface Resistance	1.00e+6 ohm	1.00e+6 ohm	IEC 60093

Descriptive Properties	Value	Comments
Automotive	Fuel systems	
Form	Granules	
Processing	Injection Molding	
Product Attributes	Hydrolysis resistant	
Special Characteristics	Anti-static	
	High impact or impact modified	
	Improved heat resistance	

Descriptive Properties	Value <i>red UV resistance (outdoor use)</i>	Comments
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