

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

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

Material Notes:

Grilamid LV-3 X ESD black is an antistatic Polyamide 12 for injection molding with 30% glass fiber reinforcement. Main attributes are: antistatic with resistivity < 106 Ohm good fuel and zinc chloride resistance good surface quality heat resistant good processability

Application examples: Applications requiring antistatic properties such as fuel system quick connectors, valves housings, structural parts of safety devices and instruments requiring ESD protection. Information provided by EMS Grivory

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in ³	ISO 1183
Water Absorption	1.0 %	1.0 %	ISO 62
Moisture Absorption	0.500 %	0.500 %	ISO 62
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 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	125 MPa	18100 psi	conditioned; ISO 2039-1
Tensile Strength at Break	120 MPa	17400 psi	conditioned; ISO 527-1/-2
	130 MPa	18900 psi	dry; ISO 527-1/-2
Elongation at Break	4.5 %	4.5 %	dry; ISO 527-1/-2
	4.5 %	4.5 %	conditioned; ISO 527-1/-2
Tensile Modulus	7.10 GPa	1030 ksi	conditioned; ISO 527-1/-2
	7.50 GPa	1090 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	6.00 J/cm ²	28.6 ft-lb/in ²	conditioned; ISO 179/1eU
	7.50 J/cm ²	35.7 ft-lb/in ²	dry; ISO 179/1eU
	4.50 J/cm ²	21.4 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	1.10 J/cm ²	5.23 ft-lb/in ²	dry; ISO 179/1eA
	1.10 J/cm ²	5.23 ft-lb/in ²	conditioned; ISO 179/1eA

Mechanical Properties	0.900 J/cm ² Metric	4.28 ft-lb/in ² English	Comments
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	0.900 J/cm ²	4.28 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 µm/m-°C	44.4 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)	165 °C	329 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	125 °C	257 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	10000 ohm-cm	10000 ohm-cm	conditioned; IEC 60093
Surface Resistance	1000 ohm	1000 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	
	Improved UV resistance (outdoor use)	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China