

## EMS-Grivory Grivory® LV-23 X ESD PA12-GF23

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

### Material Notes:

Product description: Grilamid LV-23 X ESD black is an antistatic Polyamide 12 injection moulding grade with 23 % glass fibre reinforcement. Main attributes are: antistatic with reisivtivity < 10<sup>6</sup> Ohmgood fuel and zinc chloride resistancegood surface qualityheat resistanthigh impactgood processability Applications requiring antistatic properties such as fuel system quick connectors, valve 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-23-X-ESD-PA12-GF23.php](http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-LV-23-X-ESD-PA12-GF23.php)

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in <sup>3</sup>	ISO 1183
Water Absorption	1.2 %	1.2 %	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	115 MPa	16700 psi	conditioned; ISO 2039-1
Tensile Strength at Break	100 MPa	14500 psi	conditioned; ISO 527-1/-2
Elongation at Break	5.0 %	5.0 %	conditioned; ISO 527-1/-2
Tensile Modulus	5.50 GPa	798 ksi	conditioned; ISO 527-1/-2
Charpy Impact Unnotched	5.50 J/cm <sup>2</sup>	26.2 ft-lb/in <sup>2</sup>	conditioned; ISO 179/1eU
	3.50 J/cm <sup>2</sup> @Temperature 30.0 °C	16.7 ft-lb/in <sup>2</sup> @Temperature 86.0 °F	conditioned; ISO 179/1eU
Charpy Impact, Notched	1.00 J/cm <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	conditioned; ISO 179/1eA
	0.800 J/cm <sup>2</sup> @Temperature 30.0 °C	3.81 ft-lb/in <sup>2</sup> @Temperature 86.0 °F	conditioned; ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	110 µm/m-°C	61.1 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 Thermal Properties	178 °C Metric	352 °F English	10°C/min; ISO 11357-1/-3 Comments
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	110 °C	230 °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](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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