

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

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

### Material Notes:

Product description: Grilamid LV-23 ESD is a 20% fiber reinforced, anti-static injection molding grade Polyamide 12 (PA12). Grilamid LV-23 ESD is heat stabilized, is easy to process and demold. The inherent color of this product is black. The main features of Grilamid LV-23 ESD are: Electrically conductive/ anti-staticHeat stabilizedHigh stiffness and strengthGood chemical resistanceGood oil resistanceHigh surface qualityGood dimensional stabilityLow density, low weight Grilamid LV-23 ESD is suitable for the production of injection molded parts in the area of electro/electronics and in the automotive industry for anti-static housings, covers and small components.Information provided by EMS Grivory

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_EMS-Grivory-Grivory-LV-23-ESD-PA12-GF23.php](http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-LV-23-ESD-PA12-GF23.php)

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in <sup>3</sup>	ISO 1183
Water Absorption	1.0 %	1.0 %	ISO 62
Moisture Absorption	0.500 %	0.500 %	ISO 62
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75	75	conditioned, 15s; ISO 868
Tensile Strength at Break	95.0 MPa	13800 psi	conditioned; ISO 527-1/-2
	110 MPa	16000 psi	dry; ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	dry; ISO 527-1/-2
	5.0 %	5.0 %	conditioned; ISO 527-1/-2
Tensile Modulus	5.00 GPa	725 ksi	conditioned; ISO 527-1/-2
	5.80 GPa	841 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	7.00 J/cm <sup>2</sup>	33.3 ft-lb/in <sup>2</sup>	conditioned; ISO 179/1eU
	4.00 J/cm <sup>2</sup>	19.0 ft-lb/in <sup>2</sup>	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	0.800 J/cm <sup>2</sup>	3.81 ft-lb/in <sup>2</sup>	conditioned; ISO 179/1eA
	0.600 J/cm <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	conditioned; ISO 179/1eU

Mechanical Properties	Metric @ Temperature 30.0 °C	English @ Temperature 86.0 °F	Comments
-----------------------	---------------------------------	----------------------------------	----------

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 µm/m-°C	11.1 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 1.8 MPa (264 psi)	150 °C	302 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	80.0 °C	176 °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	10000 ohm	10000 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