

EMS-Grivory Grivory® L 20 EC PA12-CD25

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

Product Description: Grilamid L 20 EC is an electrically conductive, medium viscosity injection molding product, based on Polyamid 12 (PA12). Grilamid L 20 EC is heat stabilized, easy to process with good mold release characteristics. The inherent color of this material is black. The main characteristics of this product are: Electrically conductive Heat stability Good chemical resistance Good resistance to oil High surface quality Good dimensional stability Easy to process Low density, low weight Application examples: Grilamid L 20 EC is suitable for injection molding parts in electro/electronic applications: Antistatic housings, covers and functional parts. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-L-20-EC-PA12-CD25.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 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	0.012 cm/cm	0.012 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.014 cm/cm	0.014 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	72	72	conditioned, 15s; ISO 868
Tensile Strength at Break	40.0 MPa	5800 psi	conditioned; ISO 527-1/-2
	50.0 MPa	7250 psi	dry; ISO 527-1/-2
Tensile Strength, Yield	50.0 MPa	7250 psi	conditioned; ISO 527-1/-2
	55.0 MPa	7980 psi	dry; ISO 527-1/-2
Elongation at Break	25 %	25 %	dry; ISO 527-1/-2
	30 %	30 %	conditioned; ISO 527-1/-2
Elongation at Yield	5.0 %	5.0 %	dry; ISO 527-1/-2
	10 %	10 %	conditioned; ISO 527-1/-2
Tensile Modulus	1.90 GPa	276 ksi	conditioned; ISO 527-1/-2
	2.20 GPa	319 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	NB	NB	dry; ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	5.00 J/cm ²	23.8 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	0.200 J/cm ²	0.952 ft-lb/in ²	conditioned; ISO 179/1eA
	0.300 J/cm ²	1.43 ft-lb/in ²	dry; ISO 179/1eA
	0.200 J/cm ²	0.952 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	0.300 J/cm ²	1.43 ft-lb/in ²	dry; 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	130 µm/m-°C	72.2 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)	135 °C	275 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	65.0 °C	149 °F	ISO 75-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	100 ohm-cm	100 ohm-cm	conditioned; IEC 60093
Surface Resistance	100 ohm	100 ohm	IEC 60093

Descriptive Properties	Value	Comments
Automotive	Automotive electr. and electronics, lighting	
	Powertrain and Chassis	
Electricals & Electronics	Connectors	
	Electrical equipment	
Form	Granules	

Industry & Consumer goods Descriptive Properties	Mechanical Engineering Value	Comments
	Tools & Accessories	
Processing	Injection Molding	
Special Characteristics	Anti-static	
	Improved heat resistance	

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