

EMS-Grivory Grivory® L 25 NZ ESD PA12

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

Product Description: Grilamid L 25 NZ ESD is a high viscosity, anti-static extrusion grade of Polyamide 12 (PA12). Grilamid L 25 NZ ESD is impact modified and heat stabilized. The inherent color of this material is black. The main features of Grilamid L 25 NZ ESD are: Anti-static Good low temperature impact strength Good heat stability Good chemical resistance High surface finish Good dimensional stability High processing speeds Low density, low weight

Application examples: Grilamid L 25 NZ ESD is suitable for the extrusion of tubes and profiles requiring anti-static properties for automotive and industrial applications.

Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-L-25-NZ-ESD-PA12.php

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 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	0.011 cm/cm	0.011 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
Tensile Strength at Break	40.0 MPa	5800 psi	conditioned; ISO 527-1/-2
Tensile Strength, Yield	35.0 MPa	5080 psi	
Elongation at Break	>= 50 %	>= 50 %	conditioned; ISO 527-1/-2
	>= 50 %	>= 50 %	dry; ISO 527-1/-2
Elongation at Yield	12 %	12 %	conditioned; ISO 527-1/-2
Tensile Modulus	1.00 GPa	145 ksi	conditioned; ISO 527-1/-2
Charpy Impact, Notched	8.00 J/cm ²	38.1 ft-lb/in ²	conditioned; ISO 179/1eA
	2.00 J/cm ²	9.52 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	130 µm/m-°C	72.2 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 Thermal Properties	178 °C Metric	352 °F English	10°C/min: ISO 11357-1/-3 Comments
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)	95.0 °C	203 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	45.0 °C	113 °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	1.00e+6 ohm	1.00e+6 ohm	IEC 60093

Descriptive Properties	Value	Comments
Automotive	Automotive electr. and electronics, lighting	
	Fuel systems	
Electricals & Electronics	Cables & Tubes	
Form	Granules	
Industry & Consumer goods	Hydraulics & Pneumatics	
Processing	Other Extrusion	
Product Attributes	High viscosity	
Special Characteristics	Anti-static	
	High impact or impact modified	
	Improved heat resistance	
	Improved UV resistance (outdoor use)	

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