

## EMS-Grivory Grivory® LCL-3 H anthracite PA12-CF30

Category : Polymer , Thermoplastic , Nylon , Nylon 12 , Nylon 12, Carbon Fiber Filled

### Material Notes:

Product description: Grilamid LCL-3H anthracite is based on a heat stabilized PA12 and 30% long carbon fibers. Grilamid LCL-3H anthracite is characterized by the following key-properties: high stiffness and strength very low density excellent notched impact resistance also at low temperatures low creep high heat distortion temperatures very low moisture absorption very good dimensional stability and little warpage excellent UV-resistance electrically conductive low wear and coefficient of friction The product has been designed for injection molding of technical parts especially in the area of die-cast metal replacement of highest performance. Grilamid LCL-3H anthracite is used in the following market segments: sports and leisure articles mechanical engineering household and appliances The carbon-fibers are aligned in parallel and are just as long as the pellets (usually 10 mm). Information provided by EMS Grivory

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_EMS-Grivory-Grivory-LCL-3-H-anthracite-PA12-CF30.php](http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-LCL-3-H-anthracite-PA12-CF30.php)

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in <sup>3</sup>	ISO 1183
Water Absorption	1.1 %	1.1 %	ISO 62
Moisture Absorption	0.600 %	0.600 %	ISO 62
Linear Mold Shrinkage, Transverse	0.0010 cm/cm	0.0010 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	135 MPa	19600 psi	conditioned; ISO 2039-1
Tensile Strength at Break	250 MPa	36300 psi	conditioned; ISO 527-1/-2
Elongation at Break	1.7 %	1.7 %	conditioned; ISO 527-1/-2
Tensile Modulus	19.0 GPa	2760 ksi	conditioned; 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
Charpy Impact, Notched	2.80 J/cm <sup>2</sup>	13.3 ft-lb/in <sup>2</sup>	conditioned; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Transverse to Flow	50.0 µm/m-°C	27.8 µin/in-°F	ISO 11359-1/-2
Melting Point	178 °C	352 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 1.8 MPa (264 psi)	170 °C	338 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	160 °C	320 °F	ISO 75-1/-2

Flammability UL 94 Thermal Properties	HB Metric	HB English	IEC 60695-11-10 Comments
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Electrical Properties	Metric	English	Comments
Volume Resistivity	10000 ohm-cm	10000 ohm-cm	conditioned; IEC 60093
Surface Resistance	50 ohm	50 ohm	IEC 60093

Descriptive Properties	Value	Comments
Automotive	Automotive electr. and electronics, lighting	
	Cooling and climate control	
	Exterior	
	Fuel systems	
	Interior	
	Powertrain and Chassis	
Electricals & Electronics	Connectors	
	Electrical appliances	
	Electrical equipment	
	Energy distribution	
Form	Granules	
Industry & Consumer goods	Housewares	
	Hydraulics & Pneumatics	
	Mechanical Engineering	
	Power transmission	
	Sports & Leisure	
	Tools & Accessories	
Processing	Injection Molding	
Product Attributes	Long Fiber Reinforced	
Special Characteristics	Anti-static	
	Improved heat resistance	

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