

Lehmann & Voss LUVOCOM[®] 3-7088/GY7012 Polyamide 6, with carbon fiber and glass fiber, low-warpage

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Carbon Fiber Filled

Material Notes:

Applications: Automotive industry, textile machinery, apparatus- and precision engineering.Strong, stiff parts.dynamic stressElectrically conductive, suitable for continuous discharging of statically generated electricity.Handles, levers, rollers, body parts.Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-3-7088GY7012-Polyamide-6-with-carbon-fiber-and-glass-fiber-low-warpage.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	ISO 1183
Water Absorption	<= 1.3 %	<= 1.3 %	23Â°C/24h
Linear Mold Shrinkage	0.0020 - 0.0060 cm/cm	0.0020 - 0.0060 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	140 MPa	20300 psi	
Elongation at Yield	2.0 %	2.0 %	
	2.5 %	2.5 %	flexural
Modulus of Elasticity	12.0 GPa	1740 ksi	
Flexural Strength	205 MPa	29700 psi	
Flexural Modulus	11.0 GPa	1600 ksi	
Charpy Impact Unnotched	4.00 J/cm ²	19.0 ft-lb/in ²	edgewise; ISO 179 1eU

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	110 Â°C	230 Â°F	
	130 Â°C	266 Â°F	short term
Deflection Temperature at 1.8 MPa (264 psi)	200 Â°C	392 Â°F	
Vicat Softening Point	220 Â°C	428 Â°F	DIN ISO 306

Electrical Properties	Metric	English	Comments
Insulation Resistance	<= 1.00e+6 ohm	<= 1.00e+6 ohm	

Electrical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Processing Temperature	270 Â°C	518 Â°F	mass temp
Nozzle Temperature	270 - 280 Â°C	518 - 536 Â°F	
Zone 1	250 - 270 Â°C	482 - 518 Â°F	
Zone 2	270 - 290 Â°C	518 - 554 Â°F	
Zone 3	280 - 300 Â°C	536 - 572 Â°F	
Mold Temperature	70.0 - 110 Â°C	158 - 230 Â°F	
Drying Temperature	75.0 Â°C	167 Â°F	Dehumidifying dryer
	@Time 36000 - 57600 sec	@Time 10.0 - 16.0 hour	
	105 Â°C	221 Â°F	or
	@Time 14400 - 21600 sec	@Time 4.00 - 6.00 hour	

Descriptive Properties	Value	Comments
Color	basalt grey	

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