

Lehmann & Voss LUVOCOM[®] 3-7901 Polyamide 6, with glass fiber and carbon fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 10% Glass 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-3-7901-Polyamide-6-with-glass-fiber-and-carbon-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.44 g/cc	1.44 g/cc	ISO 1183
Water Absorption	<= 1.0 %	<= 1.0 %	23Â°C/24h
Linear Mold Shrinkage	0.0010 - 0.0050 cm/cm	0.0010 - 0.0050 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	165 MPa	23900 psi	
Elongation at Yield	2.2 %	2.2 %	
	2.5 %	2.5 %	flexural
Modulus of Elasticity	14.0 GPa	2030 ksi	
Flexural Strength	230 MPa	33400 psi	
Flexural Modulus	24.0 GPa	3480 ksi	
Charpy Impact Unnotched	4.30 J/cm ²	20.5 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

Electrical Properties	Metric	English	Comments
Insulation Resistance	10000 - 1.00e+7 ohm	10000 - 1.00e+7 ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	270 Â°C	518 Â°F	mass temp

Processing Properties	Metric	English	Comments
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	ocean blue	

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