

Lehmann & Voss LUVOCOM[®] 6-8159 Polyamide 12, with carbon fiber

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

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Strong, stiff parts. Especially suitable at dynamic stress situations. Electrically conductive, suitable for continuous discharging of statically generated electricity. Low waterabsorbtion, for dimensional stable precision parts. Bearings, sleeves, sliding elements, chair rollers, handles. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-6-8159-Polyamide-12-with-carbon-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Â°C/24h
Linear Mold Shrinkage	0.0020 - 0.0060 cm/cm	0.0020 - 0.0060 in/in	
Melt Flow	6.0 g/10 min @Load 1.20 kg, Temperature 190 Â°C	6.0 g/10 min @Load 2.65 lb, Temperature 374 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	100 MPa	14500 psi	
Elongation at Yield	4.0 %	4.0 %	
	6.0 %	6.0 %	flexural
Modulus of Elasticity	6.00 GPa	870 ksi	
Flexural Strength	140 MPa	20300 psi	
Flexural Modulus	5.00 GPa	725 ksi	
Charpy Impact Unnotched	4.20 J/cmÂ²	20.0 ft-lb/inÂ²	edgewise; ISO 179 1eU
Charpy Impact, Notched	1.20 J/cmÂ²	5.71 ft-lb/inÂ²	ISO 179 1eA

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	90.0 Â°C	194 Â°F	
	140 Â°C	284 Â°F	short term

Electrical Properties	Metric	English	Comments
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Surface Resistance Electrical Properties	$\leq 1e+05$ Metric	$\leq 1e+05$ English	Comments
Insulation Resistance	≤ 100000 ohm	≤ 100000 ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	250 Â°C	482 Â°F	mass temp
Nozzle Temperature	250 - 260 Â°C	482 - 500 Â°F	
Zone 1	230 - 250 Â°C	446 - 482 Â°F	
Zone 2	240 - 260 Â°C	464 - 500 Â°F	
Zone 3	250 - 270 Â°C	482 - 518 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 21600 - 36000 sec	@Time 6.00 - 10.0 hour	
	105 Â°C	221 Â°F	or
	@Time ≤ 14400 sec	@Time ≤ 4.00 hour	

Descriptive Properties	Value	Comments
Color	natural color (black)	

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