

Lehmann & Voss LUVOCOM® 1-7004 Polyamide 66, with glass fiber and carbon fiber, heat stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass/Carbon Fiber Filled

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Strong, stiff parts. Electrically conductive, suitable for continuous discharging of statically generated electricity. Reduced moment of inertia compared with metal parts. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1-7004-Polyamide-66-with-glass-fiber-and-carbon-fiber-heat-stabilized.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	ISO 1183
Water Absorption	<= 1.0 %	<= 1.0 %	23Â°C/24h
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	195 MPa	28300 psi	
Elongation at Yield	2.0 %	2.0 %	
	2.7 %	2.7 %	flexural
Modulus of Elasticity	12.5 GPa	1810 ksi	
Flexural Strength	265 MPa	38400 psi	
Flexural Modulus	11.0 GPa	1600 ksi	
Charpy Impact Unnotched	4.80 J/cmÂ²	22.8 ft-lb/inÂ²	flatwise; ISO 179 1fU
Charpy Impact, Notched	1.00 J/cmÂ²	4.76 ft-lb/inÂ²	ISO 179 1eA

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	120 Â°C	248 Â°F	
	160 Â°C	320 Â°F	short term
Deflection Temperature at 1.8 MPa (264 psi)	245 Â°C	473 Â°F	
Flammability, UL94	HB	HB	not recognized by UL

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 1e+05	<= 1e+05	
Insulation Resistance	<= 100000 ohm	<= 100000 ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	290 Â°C	554 Â°F	mass temp
Nozzle Temperature	280 - 300 Â°C	536 - 572 Â°F	
Zone 1	290 - 310 Â°C	554 - 590 Â°F	
Zone 2	290 - 310 Â°C	554 - 590 Â°F	
Zone 3	290 - 310 Â°C	554 - 590 Â°F	
Mold Temperature	90.0 - 120 Â°C	194 - 248 Â°F	
Drying Temperature	75.0 Â°C	167 Â°F	Dehumidifying dryer
	@Time 21600 - 57600 sec	@Time 6.00 - 16.0 hour	
	105 Â°C	221 Â°F	Vacuum Dryer
	@Time 14400 - 21600 sec	@Time 4.00 - 6.00 hour	

Descriptive Properties	Value	Comments
Color	black	

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