

Lehmann & Voss LUVOCOM® 50-7110 Polycarbonate, with carbon fiber, low-warpage, easy flowing

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Carbon Fiber Reinforced

Material Notes:

Applications: Data processing machinery, precision engineering, film and photo industry, sporting and leisure goods, medical enineering. Electrically conductive, suitable for continuous discharging of statically generated electricity. High dimensionally stable precision parts with low warpage and narrow tolerance range. Highly dimensionally stable at elevated temperatures. Body and duty parts in office equipment, gear wheels, grippers. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-50-7110-Polycarbonate-with-carbon-fiber-low-warpage-easy-flowing.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.28 g/cc	1.28 g/cc	ISO 1183
Water Absorption	<= 0.20 %	<= 0.20 %	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	105 MPa	15200 psi	
Elongation at Yield	3.0 %	3.0 %	
	3.5 %	3.5 %	flexural
Modulus of Elasticity	9.00 GPa	1310 ksi	
Flexural Strength	160 MPa	23200 psi	
Flexural Modulus	8.00 GPa	1160 ksi	
Charpy Impact Unnotched	4.00 J/cmÂ²	19.0 ft-lb/inÂ²	edgewise; ISO 179 1eU

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	130 Â°C	266 Â°F	
	150 Â°C	302 Â°F	short term
Deflection Temperature at 1.8 MPa (264 psi)	135 Â°C	275 Â°F	

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

Electrical Properties	Metric	English	Comments
	100000 ohm	100000 ohm	
Processing Properties	Metric	English	Comments
Processing Temperature	295 Â°C	563 Â°F	mass temp
Nozzle Temperature	290 - 310 Â°C	554 - 590 Â°F	
Zone 1	280 - 300 Â°C	536 - 572 Â°F	
Zone 2	290 - 310 Â°C	554 - 590 Â°F	
Zone 3	300 - 320 Â°C	572 - 608 Â°F	
Mold Temperature	80.0 - 120 Â°C	176 - 248 Â°F	
Drying Temperature	120 Â°C @Time 14400 - 21600 sec	248 Â°F @Time 4.00 - 6.00 hour	Dehumidifying dryer
Descriptive Properties	Value	Comments	
Color	telegrey 2		

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