

Lehmann & Voss LUVOCOM[®] 50-7586 Polycarbonate, with carbon fiber

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 engineering. High dimensionally stable precision parts with low warpage and narrow tolerance range. Electrically conductive, suitable for continuous discharging of statically generated electricity. Low influence from moisture and temperature to measures and electrical properties. Easy demoldability. Information provided by Lehmann & Voss & Co. KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-50-7586-Polycarbonate-with-carbon-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.26 g/cc	1.26 g/cc	ISO 1183
Water Absorption	<= 0.20 %	<= 0.20 %	23Å°C/24h
Linear Mold Shrinkage	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	120 MPa	17400 psi	
Elongation at Yield	2.8 %	2.8 %	
	3.8 %	3.8 %	flexural
Modulus of Elasticity	8.00 GPa	1160 ksi	
Flexural Strength	165 MPa	23900 psi	
Flexural Modulus	7.00 GPa	1020 ksi	
Charpy Impact Unnotched	4.00 J/cm ^Å 2	19.0 ft-lb/in ^Å 2	edgewise; ISO 179 1eU

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	130 Å°C	266 Å°F	
	150 Å°C	302 Å°F	short term
Deflection Temperature at 1.8 MPa (264 psi)	146 Å°C	295 Å°F	
Flammability, UL94	V-0	V-0	not recognized by UL

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 10000 ohm	<= 10000 ohm	

Insulation Resistance Electrical Properties	≤ 10000 ohm Metric	≤ 10000 ohm English	Comments
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Processing Properties	Metric	English	Comments
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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
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Color	black	
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