

## Lehmann & Voss LUVOCOM<sup>®</sup> 50-8022 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. Strong, stiff parts. Reduced moment of inertia compared with metal parts. Electrically conductive, suitable for continuous discharging of statically generated electricity. High dimensionally stable precision parts, even at elevated temperatures and narrow tolerance range. 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-50-8022-Polycarbonate-with-carbon-fiber.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-50-8022-Polycarbonate-with-carbon-fiber.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 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	90.0 MPa	13100 psi	
Elongation at Yield	1.8 %	1.8 %	
	2.5 %	2.5 %	flexural
Modulus of Elasticity	10.0 GPa	1450 ksi	
Flexural Strength	135 MPa	19600 psi	
Flexural Modulus	8.00 GPa	1160 ksi	
Charpy Impact Unnotched	2.20 J/cm <sup>2</sup>	10.5 ft-lb/in <sup>2</sup>	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

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

Processing Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
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	dark grey	

## Contact Songhan Plastic Technology Co.,Ltd.

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