

## Lehmann & Voss LUVOCOM<sup>®</sup> 50/CF/20 Polycarbonate, with carbon fiber, low-warpage

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 with low warpage 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-50CF20-Polycarbonate-with-carbon-fiber-low-warpage.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-50CF20-Polycarbonate-with-carbon-fiber-low-warpage.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.28 g/cc	1.28 g/cc	ISO 1183
Water Absorption	<= 0.20 %	<= 0.20 %	23 <sup>°</sup> C/24h
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	92.0 MPa	13300 psi	
Elongation at Yield	2.4 %	2.4 %	
	3.2 %	3.2 %	flexural
Modulus of Elasticity	8.30 GPa	1200 ksi	
Flexural Strength	135 MPa	19600 psi	
Flexural Modulus	7.50 GPa	1090 ksi	
Charpy Impact Unnotched	3.50 J/cm <sup>2</sup>	16.7 ft-lb/in <sup>2</sup>	edgewise; ISO 179 1eU
Charpy Impact, Notched	0.500 J/cm <sup>2</sup>	2.38 ft-lb/in <sup>2</sup>	ISO 179 1eA
Coefficient of Friction, Dynamic	0.21	0.21	
Coefficient of Friction, Static	0.13	0.13	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	130 <sup>°</sup> C	266 <sup>°</sup> F	
	150 <sup>°</sup> C	302 <sup>°</sup> F	short term
Vicat Softening Point	160 <sup>°</sup> C	320 <sup>°</sup> F	DIN ISO 306

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 1e+05	<= 1e+05	
Insulation Resistance	<= 1.00e+6 ohm	<= 1.00e+6 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	black	

## Contact Songhan Plastic Technology Co.,Ltd.

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