

## Lehmann & Voss LUVOCOM<sup>®</sup> 50/CF/30 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-strength and high-stiff parts; low coefficient of expansion. 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-50CF30-Polycarbonate-with-carbon-fiber.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-50CF30-Polycarbonate-with-carbon-fiber.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	ISO 1183
Water Absorption	<= 0.20 %	<= 0.20 %	23Â°C/24h
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	
Melt Flow	16.2 g/10 min @Load 1.20 kg, Temperature 300 Â°C	16.2 g/10 min @Load 2.65 lb, Temperature 572 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	150 MPa	21800 psi	
Elongation at Yield	1.8 %	1.8 %	
	2.5 %	2.5 %	flexural
Modulus of Elasticity	18.0 GPa	2610 ksi	
Flexural Strength	225 MPa	32600 psi	
Flexural Modulus	15.5 GPa	2250 ksi	
Charpy Impact Unnotched	2.50 J/cmÂ²	11.9 ft-lb/inÂ²	flatwise; ISO 179 1fU
	2.00 J/cmÂ² @Temperature -30.0 Â°C	9.52 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179
Coefficient of Friction, Dynamic	0.19	0.19	
Coefficient of Friction, Static	0.16	0.16	

Thermal Properties	Metric	English	Comments
CTE, linear	14.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	7.78 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	DIN 53752
Thermal Conductivity	0.700 W/m-K	4.86 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	DIN 52612
Maximum Service Temperature, Air	130 $\text{Å}^\circ\text{C}$	266 $\text{Å}^\circ\text{F}$	
	150 $\text{Å}^\circ\text{C}$	302 $\text{Å}^\circ\text{F}$	short term
Deflection Temperature at 1.8 MPa (264 psi)	150 $\text{Å}^\circ\text{C}$	302 $\text{Å}^\circ\text{F}$	
Vicat Softening Point	160 $\text{Å}^\circ\text{C}$	320 $\text{Å}^\circ\text{F}$	DIN ISO 306
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Surface Resistance	$\leq 100$ ohm	$\leq 100$ ohm	
Insulation Resistance	$\leq 1000$ ohm	$\leq 1000$ ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	295 $\text{Å}^\circ\text{C}$	563 $\text{Å}^\circ\text{F}$	mass temp
Nozzle Temperature	290 - 310 $\text{Å}^\circ\text{C}$	554 - 590 $\text{Å}^\circ\text{F}$	
Zone 1	280 - 300 $\text{Å}^\circ\text{C}$	536 - 572 $\text{Å}^\circ\text{F}$	
Zone 2	290 - 310 $\text{Å}^\circ\text{C}$	554 - 590 $\text{Å}^\circ\text{F}$	
Zone 3	300 - 320 $\text{Å}^\circ\text{C}$	572 - 608 $\text{Å}^\circ\text{F}$	
Mold Temperature	80.0 - 120 $\text{Å}^\circ\text{C}$	176 - 248 $\text{Å}^\circ\text{F}$	
Drying Temperature	120 $\text{Å}^\circ\text{C}$ @Time 14400 - 21600 sec	248 $\text{Å}^\circ\text{F}$ @Time 4.00 - 6.00 hour	Dehumidifying dryer

Descriptive Properties	Value	Comments
Color	natural color (black)	

## Contact Songhan Plastic Technology Co.,Ltd.

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