

Lehmann & Voss LUVOCOM® 50-0833 Polycarbonate, with carbon fiber and glass 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.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-50-0833-Polycarbonate-with-carbon-fiber-and-glass-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 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	125 MPa	18100 psi	
Elongation at Yield	2.2 %	2.2 %	
	3.0 %	3.0 %	flexural
Modulus of Elasticity	9.50 GPa	1380 ksi	
Flexural Strength	185 MPa	26800 psi	
Flexural Modulus	8.00 GPa	1160 ksi	
Coefficient of Friction, Dynamic	0.24	0.24	
Coefficient of Friction, Static	0.22	0.22	

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

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 1000 ohm	<= 1000 ohm	

Electrical Properties	Metric	English	Comments
Insulation Resistance	≥ 10000 ohm	≥ 10000 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	

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