

Lehmann & Voss LUVOCOM[®] 50-7856/FR/BK 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-50-7856FRBK-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 %	23Å°C/24h
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	
Melt Flow	8.1 g/10 min @Load 1.20 kg, Temperature 300 Å°C	8.1 g/10 min @Load 2.65 lb, Temperature 572 Å°F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	125 MPa	18100 psi	
Elongation at Yield	2.0 %	2.0 %	
	2.5 %	2.5 %	flexural
Modulus of Elasticity	14.0 GPa	2030 ksi	
Flexural Strength	180 MPa	26100 psi	
Flexural Modulus	12.0 GPa	1740 ksi	
Charpy Impact Unnotched	3.00 J/cmÅ²	14.3 ft-lb/inÅ²	edgewise; ISO 179 1eU
Charpy Impact, Notched	0.600 J/cmÅ²	2.86 ft-lb/inÅ²	ISO 179 1eA

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	130 Å°C	266 Å°F	
	150 Å°C	302 Å°F	short term

Flammability UL 94 Thermal Properties	V-0 Metric	V-0 English	Comments
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Electrical Properties	Metric	English	Comments
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Surface Resistance	<= 10000 ohm	<= 10000 ohm	
Insulation Resistance	<= 10000 ohm	<= 10000 ohm	

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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