

Lehmann & Voss ELECTRAFIL M-2386 Polycarbonate, with carbon fiber and PTFE

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. Electrically conductive, suitable for continuous discharging of statically generated electricity. Improved friction and wear behaviour. Emergency running property. 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-ELECTRAFIL-M-2386-Polycarbonate-with-carbon-fiber-and-PTFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.29 g/cc	1.29 g/cc	ISO 1183
Water Absorption	<= 0.20 %	<= 0.20 %	23Â°C/24h
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	100 MPa	14500 psi	
Elongation at Yield	2.5 %	2.5 %	
	3.0 %	3.0 %	flexural
Modulus of Elasticity	7.00 GPa	1020 ksi	
Flexural Strength	140 MPa	20300 psi	
Flexural Modulus	6.00 GPa	870 ksi	
Charpy Impact Unnotched	3.50 J/cmÂ²	16.7 ft-lb/inÂ²	flatwise; ISO 179 1fU
Charpy Impact, Notched	0.800 J/cmÂ²	3.81 ft-lb/inÂ²	ISO 179 1eA
Coefficient of Friction, Dynamic	0.25	0.25	
Coefficient of Friction, Static	0.20	0.20	

Thermal Properties	Metric	English	Comments
CTE, linear	28.0 Âµm/m-Â°C	15.6 Âµin/in-Â°F	DIN 53752
Maximum Service Temperature, Air	130 Â°C	266 Â°F	
	150 Â°C	302 Â°F	short term

Thermal Properties	Metric	English	Comments
Vicat Softening Point	160 Â°C	320 Â°F	DIN ISO 306
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Surface Resistance	100 ohm - 1e+05	100 ohm - 1e+05	
Insulation Resistance	100 - 1.00e+6 ohm	100 - 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	

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