

Lehmann & Voss LUVOCOM® 50-3019 Polycarbonate, with glass fiber and PTFE

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Glass + PTFE Filled

Material Notes:

Applications: Data processing machinery, precision engineering, film and photo industry, sporting and leisure goods, medical engineering. High dimensionally stable precision parts, even at elevated temperatures and narrow tolerance range. Improved friction and wear behaviour. Emergency running property. Strong, stiff parts. 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-50-3019-Polycarbonate-with-glass-fiber-and-PTFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.37 g/cc	1.37 g/cc	ISO 1183
Water Absorption	<= 0.20 %	<= 0.20 %	23Â°C/24h
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	80.0 MPa	11600 psi	
Elongation at Yield	3.5 %	3.5 %	
	4.5 %	4.5 %	flexural
Modulus of Elasticity	4.50 GPa	653 ksi	
Flexural Strength	120 MPa	17400 psi	
Flexural Modulus	3.50 GPa	508 ksi	
Charpy Impact Unnotched	3.90 J/cmÂ²	18.6 ft-lb/inÂ²	flatwise; ISO 179 1fU
	3.70 J/cmÂ²	17.6 ft-lb/inÂ²	ISO 179
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Charpy Impact, Notched	1.50 J/cmÂ²	7.14 ft-lb/inÂ²	ISO 179 1eA
Coefficient of Friction, Dynamic	0.24	0.24	
Coefficient of Friction, Static	0.19	0.19	

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 Âµm/m-Â°C	27.8 Âµin/in-Â°F	DIN 53752

Thermal Properties Thermal Conductivity	Metric U,310 W/m-K	English U-in/hr-ft ² - Â°F	Comments DIN 52612
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
Flammability, UL94	HB	HB	

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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