

Lehmann & Voss LUVOCOM® 50/GF/20/TF/20/BK 100 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-strength and high-stiff parts; low coefficient of expansion. Reduced moment of inertia compared with metal parts. 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-LUVOCOM-50GF20TF20BK-100-Polycarbonate-with-glass-fiber-and-PTFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.48 g/cc	1.48 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	
Melt Flow	22.2 g/10 min @Load 5.00 kg, Temperature 300 Â°C	22.2 g/10 min @Load 11.0 lb, Temperature 572 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	95.0 MPa	13800 psi	
Elongation at Yield	3.0 %	3.0 %	
	3.5 %	3.5 %	flexural
Modulus of Elasticity	5.50 GPa	798 ksi	
Flexural Strength	140 MPa	20300 psi	
Flexural Modulus	5.00 GPa	725 ksi	
Charpy Impact Unnotched	3.50 J/cmÂ²	16.7 ft-lb/inÂ²	edgewise; ISO 179 1eU
	2.20 J/cmÂ² @Temperature -30.0 Â°C	10.5 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179
Coefficient of Friction, Dynamic	0.21	0.21	
Coefficient of Friction, Static	0.16	0.16	

Thermal Properties	Metric	English	Comments
CTE, linear	32.0 $\mu\text{m/m-}^\circ\text{C}$	17.8 $\mu\text{in/in-}^\circ\text{F}$	DIN 53752
Thermal Conductivity	0.300 W/m-K	2.08 BTU-in/hr-ft 2 - $^\circ\text{F}$	DIN 52612
Maximum Service Temperature, Air	130 $^\circ\text{C}$	266 $^\circ\text{F}$	
	150 $^\circ\text{C}$	302 $^\circ\text{F}$	short term
Deflection Temperature at 1.8 MPa (264 psi)	145 $^\circ\text{C}$	293 $^\circ\text{F}$	
Vicat Softening Point	160 $^\circ\text{C}$	320 $^\circ\text{F}$	DIN ISO 306
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Insulation Resistance	$\geq 1.00\text{e}+12$ ohm	$\geq 1.00\text{e}+12$ ohm	

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

Descriptive Properties	Value	Comments
Color	black	

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