

## Lehmann & Voss LUVOCOM<sup>®</sup> 50/TF/15/BK Polycarbonate, with PTFE

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

### Material Notes:

Applications: Data processing machinery, precision engineering, film and photo industry, sporting and leisure goods, medical engineering. Improved friction and wear behaviour. Emergency running property. High dimensionally stable precision parts, even at elevated temperatures and narrow tolerance range. Impact resistance. Body and duty parts in office equipment, gear wheels, grippers, sleeves, sliding elements, switches and plugs. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lehmann-Voss-LUVOCOM-50TF15BK-Polycarbonate-with-PTFE.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-50TF15BK-Polycarbonate-with-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	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	
Melt Flow	45 g/10 min @Load 5.00 kg, Temperature 300 Â°C	45 g/10 min @Load 11.0 lb, Temperature 572 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	50.0 MPa	7250 psi	
Elongation at Yield	5.0 %	5.0 %	
	6.0 %	6.0 %	flexural
Modulus of Elasticity	2.20 GPa	319 ksi	
Flexural Strength	80.0 MPa	11600 psi	
Flexural Modulus	2.00 GPa	290 ksi	
Charpy Impact Unnotched	10.0 J/cm <sup>2</sup>	47.6 ft-lb/in <sup>2</sup>	flatwise; ISO 179 1fU
	8.00 J/cm <sup>2</sup> @Temperature -30.0 Â°C	38.1 ft-lb/in <sup>2</sup> @Temperature -22.0 Â°F	ISO 179
Charpy Impact, Notched	2.50 J/cm <sup>2</sup>	11.9 ft-lb/in <sup>2</sup>	ISO 179 1eA
	1.50 J/cm <sup>2</sup> @Temperature -30.0 Â°C	7.14 ft-lb/in <sup>2</sup> @Temperature -22.0 Â°F	ISO 179 eA
Coefficient of Friction, Dynamic	0.15	0.15	

Mechanical Properties	Metric	English	Comments
Coefficient of Friction, Static	0.11	0.11	

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	38.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	DIN 53752
Thermal Conductivity	0.200 W/m-K	1.39 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	DIN 52612
Maximum Service Temperature, Air	130 $\text{Å}^\circ\text{C}$	266 $\text{Å}^\circ\text{F}$	
	150 $\text{Å}^\circ\text{C}$	302 $\text{Å}^\circ\text{F}$	short term
Deflection Temperature at 1.8 MPa (264 psi)	132 $\text{Å}^\circ\text{C}$	270 $\text{Å}^\circ\text{F}$	
Vicat Softening Point	160 $\text{Å}^\circ\text{C}$	320 $\text{Å}^\circ\text{F}$	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 $\text{Å}^\circ\text{C}$	563 $\text{Å}^\circ\text{F}$	mass temp
Nozzle Temperature	290 - 310 $\text{Å}^\circ\text{C}$	554 - 590 $\text{Å}^\circ\text{F}$	
Zone 1	280 - 300 $\text{Å}^\circ\text{C}$	536 - 572 $\text{Å}^\circ\text{F}$	
Zone 2	290 - 310 $\text{Å}^\circ\text{C}$	554 - 590 $\text{Å}^\circ\text{F}$	
Zone 3	300 - 320 $\text{Å}^\circ\text{C}$	572 - 608 $\text{Å}^\circ\text{F}$	
Mold Temperature	80.0 - 120 $\text{Å}^\circ\text{C}$	176 - 248 $\text{Å}^\circ\text{F}$	
Drying Temperature	120 $\text{Å}^\circ\text{C}$	248 $\text{Å}^\circ\text{F}$	Dehumidifying dryer
	@Time 14400 - 21600 sec	@Time 4.00 - 6.00 hour	

Descriptive Properties	Value	Comments
Color	black	

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