

Lehmann & Voss LUVOCOM[®] 50/TF/15/GY77 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-50TF15GY77-Polycarbonate-with-PTFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 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	

Mechanical Properties	Metric	English	Comments
Tensile Stress	55.0 MPa	7980 psi	
Elongation at Yield	5.3 %	5.3 %	
	6.5 %	6.5 %	flexural
Modulus of Elasticity	2.40 GPa	348 ksi	
Flexural Strength	80.0 MPa	11600 psi	
Flexural Modulus	2.00 GPa	290 ksi	
Coefficient of Friction, Dynamic	0.15	0.15	
Coefficient of Friction, Static	0.10	0.10	

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 Âµm/m-Â°C	38.9 Âµin/in-Â°F	DIN 53752
Thermal Conductivity	0.200 W/m-K	1.39 BTU-in/hr-ftÂ²-Â°F	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 UL 94 Thermal Properties	V-0 Metric	V-0 English	Comments
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Electrical Properties	Metric	English	Comments
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Insulation Resistance	>= 1.00e+12 ohm	>= 1.00e+12 ohm	
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Processing Properties	Metric	English	Comments
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Processing Temperature	295 Â°C	563 Â°F	mass temp
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Nozzle Temperature	290 - 310 Â°C	554 - 590 Â°F	
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Zone 1	280 - 300 Â°C	536 - 572 Â°F	
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Zone 2	290 - 310 Â°C	554 - 590 Â°F	
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Zone 3	300 - 320 Â°C	572 - 608 Â°F	
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Mold Temperature	80.0 - 120 Â°C	176 - 248 Â°F	
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Drying Temperature	120 Â°C @Time 14400 - 21600 sec	248 Â°F @Time 4.00 - 6.00 hour	Dehumidifying dryer
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Descriptive Properties	Value	Comments
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Color	dust grey	
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