

Lehmann & Voss LUVOCOM® 50-7216 Polycarbonate, with PTFE, easy flowing

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 enineering. 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-50-7216-Polycarbonate-with-PTFE-easy-flowing.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.34 g/cc	1.34 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	50.0 MPa	7250 psi	
Elongation at Yield	4.5 %	4.5 %	
	5.5 %	5.5 %	flexural
Modulus of Elasticity	2.30 GPa	334 ksi	
Flexural Strength	80.0 MPa	11600 psi	
Flexural Modulus	1.80 GPa	261 ksi	
Charpy Impact Unnotched	8.50 J/cmÂ²	40.4 ft-lb/inÂ²	flatwise; ISO 179 1fU
	6.00 J/cmÂ²	28.6 ft-lb/inÂ²	ISO 179
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	

Thermal Properties	Metric	English	Comments
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

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

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
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Color	black	
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