

Lehmann & Voss LUVOCOM[®] 50-8376 Polycarbonate, unreinforced

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Applications: Data processing machinery, precision engineering, film and photo industry, sporting and leisure goods, medical engineering. Antistatic. Isotropic shrinkage characteristics. Reduced moment of inertia compared with metal parts. High dimensionally stable precision parts. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-50-8376-Polycarbonate-unreinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.36 g/cc	2.36 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	
Melt Flow	106.2 g/10 min @Load 2.16 kg, Temperature 300 Â°C	106.2 g/10 min @Load 4.76 lb, Temperature 572 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	55.0 MPa	7980 psi	
Elongation at Yield	1.1 %	1.1 %	
	1.6 %	1.6 %	flexural
Modulus of Elasticity	6.00 GPa	870 ksi	
Flexural Strength	80.0 MPa	11600 psi	
Flexural Modulus	5.00 GPa	725 ksi	
Charpy Impact Unnotched	1.60 J/cmÂ²	7.61 ft-lb/inÂ²	edgewise; ISO 179 1eU

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	130 Â°C	266 Â°F	
	150 Â°C	302 Â°F	short term

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 1.00e+12 ohm	<= 1.00e+12 ohm	
Insulation Resistance	1.00e+6 - 1.00e+9 ohm	1.00e+6 - 1.00e+9 ohm	

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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