

Lehmann & Voss LUVOCOM[®] 1500-0871 Polysulfone, with glass spheres

Category : Polymer , Thermoplastic , Polysulfone (PSU)

Material Notes:

Applications: Isotropic shrinkage characteristics. Chemical and hydrolysis resistance parts, non flammable. High dimensionally stable precision parts, high continuous use temperature. Control disks, cams, sliding elements and other duty parts. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1500-0871-Polysulfone-with-glass-spheres.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.46 g/cc	1.46 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Â°C/24h
Linear Mold Shrinkage	0.0050 - 0.010 cm/cm	0.0050 - 0.010 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	75.0 MPa	10900 psi	
Elongation at Yield	3.5 %	3.5 %	
	4.7 %	4.7 %	flexural
Modulus of Elasticity	3.80 GPa	551 ksi	
Flexural Strength	105 MPa	15200 psi	
Flexural Modulus	3.20 GPa	464 ksi	
Charpy Impact Unnotched	4.00 J/cm ²	19.0 ft-lb/in ²	flatwise; ISO 179 1fU

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	150 Â°C	302 Â°F	
	170 Â°C	338 Â°F	short term

Electrical Properties	Metric	English	Comments
Surface Resistance	>= 1.00e+12 ohm	>= 1.00e+12 ohm	
Insulation Resistance	>= 1.00e+12 ohm	>= 1.00e+12 ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	355 Â°C	671 Â°F	mass temp

Processing Properties	Metric	English	Comments
Zone 1	340 - 360 Â°C	644 - 680 Â°F	
Zone 2	345 - 365 Â°C	653 - 689 Â°F	
Zone 3	350 - 370 Â°C	662 - 698 Â°F	
Mold Temperature	140 - 170 Â°C	284 - 338 Â°F	
Drying Temperature	140 Â°C @Time 10800 - 14400 sec	284 Â°F @Time 3.00 - 4.00 hour	Dehumidifying dryer

Descriptive Properties	Value	Comments
Color	natural color (beige)	

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