

Lehmann & Voss LUVOCOM[®] 1503-7986 Polysuper sulfone, with glass fiber and PTFE

Category : Polymer , Thermoplastic , Polysulfone (PSU)

Material Notes:

Applications: Automotive industry, office machinery, medical- and precision engineering. High continuous use and heat distortion temperature. Non flammable. Strong, stiff parts. Improved friction and wear behaviour. Emergency running property. High chemical resistance parts. 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-1503-7986-Polysuper-sulfone-with-glass-fiber-and-PTFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.72 g/cc	1.72 g/cc	ISO 1183
Water Absorption	<= 0.30 %	<= 0.30 %	23Â°C/24h
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	
Melt Flow	8.0 g/10 min @Load 5.00 kg, Temperature 380 Â°C	8.0 g/10 min @Load 11.0 lb, Temperature 716 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	125 MPa	18100 psi	
Elongation at Yield	2.0 %	2.0 %	
	2.5 %	2.5 %	flexural
Modulus of Elasticity	10.0 GPa	1450 ksi	
Flexural Strength	180 MPa	26100 psi	
Flexural Modulus	9.00 GPa	1310 ksi	
Charpy Impact Unnotched	3.50 J/cmÂ²	16.7 ft-lb/inÂ²	edgewise; ISO 179 1eU
Charpy Impact, Notched	1.20 J/cmÂ²	5.71 ft-lb/inÂ²	ISO 179 1eA

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	185 Â°C	365 Â°F	
	220 Â°C	428 Â°F	short term
Deflection Temperature at 1.8 MPa (264 psi)	210 Â°C	410 Â°F	

Flammability, UL 94 Thermal Properties	V-0 Metric	V-0 English	not recognized by UL Comments
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Electrical Properties	Metric	English	Comments
Surface Resistance	>= 1.00e+14 ohm	>= 1.00e+14 ohm	
Insulation Resistance	>= 1.00e+14 ohm	>= 1.00e+14 ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	350 Â°C	662 Â°F	mass temp
Nozzle Temperature	350 - 370 Â°C	662 - 698 Â°F	
Zone 1	330 - 350 Â°C	626 - 662 Â°F	
Zone 2	340 - 360 Â°C	644 - 680 Â°F	
Zone 3	350 - 370 Â°C	662 - 698 Â°F	
Mold Temperature	150 - 170 Â°C	302 - 338 Â°F	
Drying Temperature	150 Â°C @Time 10800 - 18000 sec	302 Â°F @Time 3.00 - 5.00 hour	Air-Circulation Dryer
	160 Â°C @Time 10800 - 14400 sec	320 Â°F @Time 3.00 - 4.00 hour	Dehumidifying dryer

Descriptive Properties	Value	Comments
Color	natural color (beige)	

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