

Lehmann & Voss LUVOCOM[®] 1104-7452 Polyether ketone, with glass fiber, easy flowing

Category : Polymer , Thermoplastic , Polyketone

Material Notes:

Applications: Automotive industry, mechanical- and precision engineering. Improved strength and stiffness at elevated temperatures. Improved fatigue properties. Thermic, mechanic and chemical highly stressed parts. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1104-7452-Polyether-ketone-with-glass-fiber-easy-flowing.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.53 g/cc	1.53 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23 [°] C/24h
Linear Mold Shrinkage	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	180 MPa	26100 psi	
Elongation at Yield	2.1 %	2.1 %	
	2.7 %	2.7 %	flexural
Modulus of Elasticity	11.5 GPa	1670 ksi	
Flexural Strength	260 MPa	37700 psi	
Flexural Modulus	9.00 GPa	1310 ksi	
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	flatwise; ISO 179 1fU
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179 1eA
Coefficient of Friction, Dynamic	0.31	0.31	
Coefficient of Friction, Static	0.28	0.28	

Thermal Properties	Metric	English	Comments
CTE, linear	22.0 μ m/m- [°] C	12.2 μ in/in- [°] F	DIN 53752
Thermal Conductivity	0.400 W/m-K	2.78 BTU-in/hr-ft ² - [°] F	DIN 52612
Maximum Service Temperature, Air	260 [°] C	500 [°] F	

Thermal Properties	290 Å°C Metric	554 Å°F English	short term Comments
Vicat Softening Point	325 Å°C	617 Å°F	DIN ISO 306

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

Processing Properties	Metric	English	Comments
Processing Temperature	390 Å°C	734 Å°F	mass temp
Nozzle Temperature	390 - 420 Å°C	734 - 788 Å°F	
Zone 1	370 - 390 Å°C	698 - 734 Å°F	
Zone 2	380 - 420 Å°C	716 - 788 Å°F	
Zone 3	390 - 420 Å°C	734 - 788 Å°F	
Mold Temperature	180 - 230 Å°C	356 - 446 Å°F	
Drying Temperature	140 Å°C @Time 14400 - 57600 sec	284 Å°F @Time 4.00 - 16.0 hour	Dehumidifying dryer
	150 Å°C @Time 14400 - 28800 sec	302 Å°F @Time 4.00 - 8.00 hour	Air-Circulation Dryer

Descriptive Properties	Value	Comments
Color	black	

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