

Lehmann & Voss LUVOCOM[®] 1104-7598 Polyether ketone, with carbon fiber, PTFE, lubricant modified

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-1104-7598-Polyether-ketone-with-carbon-fiber-PTFE-lubricant-modified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.45 g/cc	1.45 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Â°C/24h
Linear Mold Shrinkage	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	158 MPa	22900 psi	
Elongation at Yield	1.8 %	1.8 %	
	2.4 %	2.4 %	flexural
Modulus of Elasticity	14.0 GPa	2030 ksi	
Flexural Strength	225 MPa	32600 psi	
Flexural Modulus	12.0 GPa	1740 ksi	
Charpy Impact Unnotched	3.30 J/cm ²	15.7 ft-lb/in ²	edgewise; ISO 179 1eU

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	260 Â°C	500 Â°F	
	290 Â°C	554 Â°F	short term
Vicat Softening Point	>= 325 Â°C	>= 617 Â°F	DIN ISO 306

Electrical Properties	Metric	English	Comments
Insulation Resistance	<= 100000 ohm	<= 100000 ohm	

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

Descriptive Properties	Value	Comments
Color	natural color (black)	

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