

Lehmann & Voss LUVOCOM[®] 1105-7594/BL PEEK, with glass fiber, easy flowing

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, Glass Fiber Filled

Material Notes:

Applications: Automotive industry, textile machinery, medical- and precision engineering, aircraft industry.Strong, stiff parts.Chemical and hydrolysis resistance parts, non flammable.High dimensionally stable precision parts, high continuous use temperature.Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1105-7594BL-PEEK-with-glass-fiber-easy-flowing.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.51 g/cc	1.51 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Â°C/24h
Linear Mold Shrinkage	0.0030 - 0.0070 cm/cm	0.0030 - 0.0070 in/in	
Melt Flow	39.26 g/10 min @Load 5.00 kg, Temperature 380 Â°C	39.26 g/10 min @Load 11.0 lb, Temperature 716 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	130 MPa	18900 psi	
Elongation at Yield	1.5 %	1.5 %	
	1.9 %	1.9 %	flexural
Modulus of Elasticity	9.50 GPa	1380 ksi	
Flexural Strength	180 MPa	26100 psi	
Flexural Modulus	8.00 GPa	1160 ksi	
Charpy Impact Unnotched	3.50 J/cmÂ²	16.7 ft-lb/inÂ²	flatwise; ISO 179 1fU
Coefficient of Friction, Dynamic	0.31	0.31	
Coefficient of Friction, Static	0.29	0.29	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	250 Â°C	482 Â°F	
	260 Â°C	500 Â°F	short term
Deflection Temperature at 1.8 MPa	305 Â°C	581 Â°F	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	320 Å°C	608 Å°F	DIN ISO 306
Flammability, UL94	V-0	V-0	not recognized by UL

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	360 - 380 Å°C	680 - 716 Å°F	
Zone 1	360 - 370 Å°C	680 - 698 Å°F	
Zone 2	380 - 390 Å°C	716 - 734 Å°F	
Zone 3	390 - 400 Å°C	734 - 752 Å°F	
Mold Temperature	170 - 200 Å°C	338 - 392 Å°F	
Drying Temperature	120 Å°C @Time 21600 - 28800 sec	248 Å°F @Time 6.00 - 8.00 hour	or
	150 Å°C @Time 10800 - 21600 sec	302 Å°F @Time 3.00 - 6.00 hour	Dehumidifying dryer

Descriptive Properties	Value	Comments
Color	sapphire blue	

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