

Lehmann & Voss LUVOCOM® 1105-7173/BL PEEK, with glass fiber

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-1105-7173BL-PEEK-with-glass-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.51 g/cc	1.51 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23°C/24h
Linear Mold Shrinkage	0.0030 - 0.0070 cm/cm	0.0030 - 0.0070 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	150 MPa	21800 psi	
Elongation at Yield	2.5 %	2.5 %	
	3.0 %	3.0 %	flexural
Modulus of Elasticity	9.50 GPa	1380 ksi	
Flexural Strength	210 MPa	30500 psi	
Flexural Modulus	7.50 GPa	1090 ksi	
Charpy Impact Unnotched	3.50 J/cm ²	16.7 ft-lb/in ²	flatwise; ISO 179 1fU
	4.00 J/cm ²	19.0 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Coefficient of Friction, Dynamic	0.31	0.31	
Coefficient of Friction, Static	0.29	0.29	

Thermal Properties	Metric	English	Comments
CTE, linear	22.0 µm/m-°C	12.2 µin/in-°F	DIN 53752
Thermal Conductivity	0.300 W/m-K	2.08 BTU-in/hr-ft ² -°F	DIN 52612
Maximum Service Temperature, Air	250 °C	482 °F	
	280 °C	536 °F	short term

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	315 °C	599 °F	
Vicat Softening Point	320 °C	608 °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 °C	734 °F	mass temp
Nozzle Temperature	360 - 380 °C	680 - 716 °F	
Zone 1	360 - 370 °C	680 - 698 °F	
Zone 2	380 - 390 °C	716 - 734 °F	
Zone 3	390 - 400 °C	734 - 752 °F	
Mold Temperature	170 - 200 °C	338 - 392 °F	
Drying Temperature	120 °C	248 °F	or
	@Time 21600 - 28800 sec	@Time 6.00 - 8.00 hour	
	150 °C	302 °F	Dehumidifying dryer
	@Time 10800 - 21600 sec	@Time 3.00 - 6.00 hour	

Descriptive Properties	Value	Comments
Color	sapphire blue	

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