

Lehmann & Voss LUVOCOM[®] 1105-0904/GN 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.High dimensionally stable precision parts, high continuous use temperature.Suitable for biocompatible application, superheated steam sterilizable.High chemical resistance parts, hydrolysis resistance, non flammable.Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1105-0904GN-PEEK-with-glass-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.55 g/cc	1.55 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	

Mechanical Properties	Metric	English	Comments
Tensile Stress	150 MPa	21800 psi	
Elongation at Yield	2.0 %	2.0 %	
	2.5 %	2.5 %	flexural
Modulus of Elasticity	11.0 GPa	1600 ksi	
Flexural Strength	210 MPa	30500 psi	
Flexural Modulus	9.00 GPa	1310 ksi	
Charpy Impact Unnotched	3.50 J/cm ^Â 2	16.7 ft-lb/in ^Â 2	flatwise; ISO 179 1fU
Coefficient of Friction, Dynamic	0.32	0.32	
Coefficient of Friction, Static	0.30	0.30	

Thermal Properties	Metric	English	Comments
CTE, linear	22.0 Âµm/m-Â°C	12.2 Âµin/in-Â°F	DIN 53752
Thermal Conductivity	0.400 W/m-K	2.78 BTU-in/hr-ft ^Â 2-Â°F	DIN 52612
Maximum Service Temperature, Air	250 Â°C	482 Â°F	
	280 Â°C	536 Â°F	short term
Vicat Softening Point	325 Â°C	617 Â°F	DIN ISO 306

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

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

Descriptive Properties	Value	Comments
Color	turquoise green	

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