

Lehmann & Voss LUVOCOM[®] 1105-8402 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-1105-8402-PEEK-with-glass-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.52 g/cc	1.52 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Â°C/24h
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	180 MPa	26100 psi	
Elongation at Yield	2.8 %	2.8 %	
	3.6 %	3.6 %	flexural
Modulus of Elasticity	11.0 GPa	1600 ksi	
Flexural Strength	265 MPa	38400 psi	
Flexural Modulus	9.00 GPa	1310 ksi	
Charpy Impact Unnotched	5.00 J/cm ^Â 2	23.8 ft-lb/in ^Â 2	flatwise; ISO 179 1fU
	4.50 J/cm ^Â 2	21.4 ft-lb/in ^Â 2	ISO 179
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
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 Âµm/m-Â°C	12.2 Âµin/in-Â°F	DIN 53752
Maximum Service Temperature, Air	250 Â°C	482 Â°F	
	280 Â°C	536 Â°F	short term

Thermal Properties <small>Deflection Temperature at 1.8 MPa (104 psi)</small>	Metric 315 Å°C	English 609 Å°F	Comments
Vicat Softening Point	325 Å°C	617 Å°F	DIN ISO 306
Flammability, UL94	V-0	V-0	not recognized by UL

Electrical Properties	Metric	English	Comments
Surface Resistance	>= 1.00e+12 ohm	>= 1.00e+12 ohm	
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	natural color	

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