

Lehmann & Voss LUVOCOM® 1105-0706 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; impact resistance.Dynamic stressed parts at high movement velocity.Chemical and hydrolysis resistance parts, non flammable.High dimensionally stable precision parts, high continuous use temperature.Bearings, sleeves, control disks, gear wheels, pump impellers, gear parts.Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1105-0706-PEEK-with-glass-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.49 g/cc	1.49 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	170 MPa	24700 psi	
Elongation at Yield	3.5 %	3.5 %	
	4.5 %	4.5 %	flexural
Modulus of Elasticity	10.0 GPa	1450 ksi	
Flexural Strength	250 MPa	36300 psi	
Flexural Modulus	7.00 GPa	1020 ksi	
Charpy Impact Unnotched	6.00 J/cmÂ²	28.6 ft-lb/inÂ²	flatwise; ISO 179 1fU
	5.50 J/cmÂ²	26.2 ft-lb/inÂ²	ISO 179
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Coefficient of Friction, Dynamic	0.30	0.30	
Coefficient of Friction, Static	0.28	0.28	

Thermal Properties	Metric	English	Comments
CTE, linear	21.0 Âµm/m-Â°C	11.7 Âµin/in-Â°F	DIN 53752
Thermal Conductivity	0.350 W/m-K	2.43 BTU-in/hr-ftÂ²- Â°F	DIN 52612

Maximum Service Temperature, Air Thermal Properties	250 Â°C Metric	482 Â°F English	Comments
	280 Â°C	536 Â°F	short term
Deflection Temperature at 1.8 MPa (264 psi)	315 Â°C	599 Â°F	
Vicat Softening Point	320 Â°C	608 Â°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 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	natural color	

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