

Lehmann & Voss LUVOCOM[®] 1105/GF/30/BK-1 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-1105GF30BK-1-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	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	160 MPa	23200 psi	
Elongation at Yield	2.5 %	2.5 %	
	3.0 %	3.0 %	flexural
Modulus of Elasticity	11.0 GPa	1600 ksi	
Flexural Strength	260 MPa	37700 psi	
Flexural Modulus	9.00 GPa	1310 ksi	
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	flatwise; ISO 179 1fU
	4.00 J/cm ²	19.0 ft-lb/in ²	ISO 179
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	ISO 179 eA
	@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

Thermal Properties	Metric W/m-K	English 2.78 BTU-in/hr-ftÅ²-	Comments
Maximum Service Temperature, Air	250 Å°C	482 Å°F	
	280 Å°C	536 Å°F	short term
Deflection Temperature at 1.8 MPa (264 psi)	315 Å°C	599 Å°F	
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	black	

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