

Lehmann & Voss LUVOCOM[®] 1105/GF/40/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; 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-1105GF40BK-1-PEEK-with-glass-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.61 g/cc	1.61 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	180 MPa	26100 psi	
Elongation at Yield	2.0 %	2.0 %	
	2.5 %	2.5 %	flexural
Modulus of Elasticity	13.0 GPa	1890 ksi	
Flexural Strength	250 MPa	36300 psi	
Flexural Modulus	11.0 GPa	1600 ksi	
Charpy Impact Unnotched	2.50 J/cm ² @Temperature -30.0 Â°C	11.9 ft-lb/in ² @Temperature -22.0 Â°F	ISO 179
Coefficient of Friction, Dynamic	0.31	0.31	
Coefficient of Friction, Static	0.29	0.29	

Thermal Properties	Metric	English	Comments
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

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	248 Â°F	or
	@Time 21600 - 28800 sec	@Time 6.00 - 8.00 hour	
	150 Â°C	302 Â°F	Dehumidifying dryer
	@Time 10800 - 21600 sec	@Time 3.00 - 6.00 hour	

Descriptive Properties	Value	Comments
Color	black	

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