

Lehmann & Voss LUVOCOM® 1105/GF/40 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-1105GF40-PEEK-with-glass-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.62 g/cc	1.62 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	200 MPa	29000 psi	
Elongation at Yield	2.5 %	2.5 %	
	3.0 %	3.0 %	flexural
Modulus of Elasticity	14.0 GPa	2030 ksi	
Flexural Strength	260 MPa	37700 psi	
Flexural Modulus	12.0 GPa	1740 ksi	
Charpy Impact Unnotched	3.00 J/cmÂ²	14.3 ft-lb/inÂ²	flatwise; ISO 179 1fU
	2.50 J/cmÂ²	11.9 ft-lb/inÂ²	ISO 179
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Coefficient of Friction, Dynamic	0.31	0.31	
Coefficient of Friction, Static	0.29	0.29	

Thermal Properties	Metric	English	Comments
CTE, linear	18.0 Âµm/m-Â°C	10.0 Âµin/in-Â°F	DIN 53752
Thermal Conductivity	0.420 W/m-K	2.91 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
Vicat Softening Point	325 Â°C	617 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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