

Lehmann & Voss LUVOCOM® 1105-7251 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.High dimensionally stable precision parts, high continuous use temperature.Especially suitable for medical parts, superheated steam sterilizable, hydrolysis resistanceHigh chemical resistance parts, hydrolysis resistance, non flammable.Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1105-7251-PEEK-with-glass-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.84 g/cc	1.84 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23°C/24h
Linear Mold Shrinkage	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	
Melt Flow	15 g/10 min @Load 5.00 kg, Temperature 380 °C	15 g/10 min @Load 11.0 lb, Temperature 716 °F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	90.0 MPa	13100 psi	
Elongation at Yield	1.0 %	1.0 %	flexural
	1.5 %	1.5 %	
Modulus of Elasticity	14.5 GPa	2100 ksi	
Flexural Strength	160 MPa	23200 psi	
Flexural Modulus	13.0 GPa	1890 ksi	
Charpy Impact Unnotched	2.10 J/cm ²	9.99 ft-lb/in ²	edgewise; ISO 179 1eU
Coefficient of Friction, Dynamic	0.32	0.32	
Coefficient of Friction, Static	0.30	0.30	

Thermal Properties	Metric	English	Comments
CTE, linear	22.0 µm/m-°C	12.2 µin/in-°F	DIN 53752
Thermal Conductivity	0.500 W/m-K	3.47 BTU-in/hr-ft ² -°F	DIN 52612
Maximum Service Temperature, Air	250 °C	482 °F	

Thermal Properties	Metric	English	Comments
	260 °C	500 °F	short term
Vicat Softening Point	330 °C	626 °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 °C	734 °F	mass temp
Nozzle Temperature	360 - 380 °C	680 - 716 °F	
Zone 1	360 - 370 °C	680 - 698 °F	
Zone 2	380 - 390 °C	716 - 734 °F	
Zone 3	390 - 400 °C	734 - 752 °F	
Mold Temperature	170 - 200 °C	338 - 392 °F	
Drying Temperature	120 °C @Time 21600 - 28800 sec	248 °F @Time 6.00 - 8.00 hour	or
	150 °C @Time 10800 - 21600 sec	302 °F @Time 3.00 - 6.00 hour	Dehumidifying dryer

Descriptive Properties	Value	Comments
Color	natural color	

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