

Lehmann & Voss LUVOCOM[®] 1105-1963 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.Dynamic stressed parts.Chemical and hydrolysis resistance parts, non flammable.High continuous use temperature.Information provided by Lehmann & Voss & Co.KG

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http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1105-1963-PEEK-with-glass-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.38 g/cc	1.38 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Â°C/24h
Linear Mold Shrinkage	0.0040 - 0.0090 cm/cm	0.0040 - 0.0090 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	120 MPa	17400 psi	
Elongation at Yield	3.0 %	3.0 %	
	3.9 %	3.9 %	flexural
Modulus of Elasticity	7.50 GPa	1090 ksi	
Flexural Strength	210 MPa	30500 psi	
Flexural Modulus	6.00 GPa	870 ksi	
Charpy Impact Unnotched	5.00 J/cm ^Â 2	23.8 ft-lb/in ^Â 2	edgewise; ISO 179 1eU
Charpy Impact, Notched	0.600 J/cm ^Â 2	2.86 ft-lb/in ^Â 2	ISO 179 1eA
Coefficient of Friction, Dynamic	0.28	0.28	
Coefficient of Friction, Static	0.26	0.26	

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 Âµm/m-Â°C	16.7 Âµin/in-Â°F	DIN 53752
Maximum Service Temperature, Air	250 Â°C	482 Â°F	
	260 Â°C	500 Â°F	short term
Deflection Temperature at 1.8 MPa (264 psi)	275 Â°C	527 Â°F	

Vicat Softening Point Thermal Properties	320 Â°C Metric	608 Â°F English	DIN ISO 306 Comments
Flammability, UL94	V-0	V-0	not recognized by UL

Electrical Properties	Metric	English	Comments
Surface Resistance	>= 1.00e+13 ohm	>= 1.00e+13 ohm	
Insulation Resistance	>= 1.00e+14 ohm	>= 1.00e+14 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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