

Lehmann & Voss LUVOCOM® 1105-7583 PEEK, with glass fiber and PTFE, improved wear resistance

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, Glass Fiber Filled

Material Notes:

Applications: Automotive industry, textile machinery, medical- and precision engineering, aircraft industry. Good friction and wear behaviour especially at increased temperatures. Chemical and hydrolysis resistance parts, non flammable. Low warpage, isotropic shrinkage characteristics. Highly dimensionally stable at elevated temperatures. Bearings, sleeves, control disks, gear wheels, cams. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1105-7583-PEEK-with-glass-fiber-and-PTFE-improved-wear-resistance.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.71 g/cc	1.71 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Â°C/24h
Linear Mold Shrinkage	0.0060 - 0.012 cm/cm	0.0060 - 0.012 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	55.0 MPa	7980 psi	
Elongation at Yield	3.5 %	3.5 %	
	4.5 %	4.5 %	flexural
Modulus of Elasticity	8.50 GPa	1230 ksi	
Flexural Strength	75.0 MPa	10900 psi	
Flexural Modulus	6.00 GPa	870 ksi	
Charpy Impact Unnotched	1.80 J/cmÂ²	8.57 ft-lb/inÂ²	edgewise; ISO 179 1eU

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	250 Â°C	482 Â°F	
	260 Â°C	500 Â°F	short term

Electrical Properties	Metric	English	Comments
Insulation Resistance	>= 1.00e+12 ohm	>= 1.00e+12 ohm	

Processing Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
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	natural color	

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