

Lehmann & Voss LUVOCOM[®] 1105-7776 PEEK, with carbon fiber, lubricant modified

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

Material Notes:

Applications: Automotive industry, textile machinery, medical- and precision engineering, aircraft industry.Strong, stiff parts.Low warpage, isotropic shrinkage characteristics.Emergency running property.Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1105-7776-PEEK-with-carbon-fiber-lubricant-modified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.59 g/cc	1.59 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Â°C/24h
Linear Mold Shrinkage	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	
Melt Flow	22.26 g/10 min @Load 10.0 kg, Temperature 380 Â°C	22.26 g/10 min @Load 22.0 lb, Temperature 716 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	130 MPa	18900 psi	
Elongation at Yield	2.2 %	2.2 %	
	2.8 %	2.8 %	flexural
Modulus of Elasticity	10.0 GPa	1450 ksi	
Flexural Strength	190 MPa	27600 psi	
Flexural Modulus	8.50 GPa	1230 ksi	
Charpy Impact Unnotched	3.30 J/cmÂ²	15.7 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+6 ohm	>= 1.00e+6 ohm	

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

Descriptive Properties	Value	Comments
Color	slate grey	

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