

Lehmann & Voss LUVOCOM[®] 1105-8496 PEEK, with carbon fiber

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.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-1105-8496-PEEK-with-carbon-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.45 g/cc	1.45 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Â°C/24h
Linear Mold Shrinkage	0.0020 - 0.0060 cm/cm	0.0020 - 0.0060 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	160 MPa	23200 psi	
Elongation at Yield	1.3 %	1.3 %	
	1.7 %	1.7 %	flexural
Modulus of Elasticity	24.0 GPa	3480 ksi	
Flexural Strength	225 MPa	32600 psi	
Flexural Modulus	20.0 GPa	2900 ksi	
Charpy Impact Unnotched	2.30 J/cm ²	10.9 ft-lb/in ²	edgewise; ISO 179 1eU
Coefficient of Friction, Dynamic	0.25	0.25	
Coefficient of Friction, Static	0.20	0.20	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	3.50 W/m-K	24.3 BTU-in/hr-ft ² - Â°F	HOT-DISK 60x60x3 mm
Maximum Service Temperature, Air	250 Â°C	482 Â°F	
	260 Â°C	500 Â°F	short term

Electrical Properties	Metric	English	Comments
Surface Resistance	>= 1.00e+7 ohm	>= 1.00e+7 ohm	

Insulation Resistance Electrical Properties	$\geq 1.00e+7$ ohm Metric	$\geq 1.00e+7$ ohm English	Comments
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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 @Time 21600 - 28800 sec	248 Å°F @Time 6.00 - 8.00 hour	or
	150 Å°C @Time 10800 - 21600 sec	302 Å°F @Time 3.00 - 6.00 hour	Dehumidifying dryer

Descriptive Properties	Value	Comments
Color	natural color (black)	

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