

Lehmann & Voss LUVOCOM® 1105-8165 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.Chemical and hydrolysis resistance parts, non flammable.Electrically conductive, suitable for continuous discharging of statically generated electricity.Thermic, mechanic and chemical highly stressed parts.Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1105-8165-PEEK-with-carbon-fiber-lubricant-modified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.64 g/cc	1.64 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23°C/24h
Linear Mold Shrinkage	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	90.0 MPa	13100 psi	
Elongation at Yield	0.50 %	0.50 %	
	0.70 %	0.70 %	flexural
Modulus of Elasticity	22.0 GPa	3190 ksi	
Flexural Strength	120 MPa	17400 psi	
Flexural Modulus	19.0 GPa	2760 ksi	
Charpy Impact Unnotched	0.800 J/cm ²	3.81 ft-lb/in ²	edgewise; ISO 179 1eU

Thermal Properties	Metric	English	Comments
Thermal Conductivity	22.0 W/m-K	153 BTU-in/hr-ft ² -°F	HOT-DISK; 60x60x3 mm
Maximum Service Temperature, Air	250 °C	482 °F	
	260 °C	500 °F	short term
Deflection Temperature at 1.8 MPa (264 psi)	260 °C	500 °F	
Vicat Softening Point	320 °C	608 °F	DIN ISO 306
Flammability, UL94	V-0	V-0	not recognized by UL

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 1000 ohm	<= 1000 ohm	
Insulation Resistance	<= 1000 ohm	<= 1000 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	248 °F	or
	@Time 21600 - 28800 sec	@Time 6.00 - 8.00 hour	
	150 °C	302 °F	Dehumidifying dryer
	@Time 10800 - 21600 sec	@Time 3.00 - 6.00 hour	

Descriptive Properties	Value	Comments
Color	natural color (black)	

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