

Lehmann & Voss LUVOCOM[®] 1105-8179 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.High-strength and high-stiff parts; low coefficient of expansion.Dynamic stressed parts at high movement velocity.Chemical and hydrolysis resistance parts, non flammable.Electrically conductive, suitable for continuous discharging of statically generated electricity.Bearings, sleeves, control disks, gear wheels, pump impellers, gear parts.Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1105-8179-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	0.00050 - 0.0020 cm/cm	0.00050 - 0.0020 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	280 MPa	40600 psi	
Elongation at Yield	1.3 %	1.3 %	
	1.7 %	1.7 %	flexural
Modulus of Elasticity	34.0 GPa	4930 ksi	
Flexural Strength	405 MPa	58700 psi	
Flexural Modulus	27.0 GPa	3920 ksi	
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	edgewise; ISO 179 1eU

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	250 Â°C	482 Â°F	
	300 Â°C	572 Â°F	short term
Deflection Temperature at 1.8 MPa (264 psi)	330 Â°C	626 Â°F	

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 1000 ohm	<= 1000 ohm	
Insulation Resistance	<= 1000 ohm	<= 1000 ohm	

Electrical Properties	Metric	English	Comments
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	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 (black)	

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