

Lehmann & Voss LUVOCOM[®] 1105-8355 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. High chemical resistance parts, hydrolysis resistance, 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-1105-8355-PEEK-with-carbon-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.47 g/cc	1.47 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	240 MPa	34800 psi	
Elongation at Yield	1.4 %	1.4 %	
	1.8 %	1.8 %	flexural
Modulus of Elasticity	29.0 GPa	4210 ksi	
Flexural Strength	345 MPa	50000 psi	
Flexural Modulus	25.0 GPa	3630 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	
	280 Â°C	536 Â°F	short term
Vicat Softening Point	325 Â°C	617 Â°F	DIN ISO 306

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 10000 ohm	<= 10000 ohm	
Insulation Resistance	<= 100000 ohm	<= 100000 ohm	

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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