

Lehmann & Voss LUVOCOM® 1105-7916-1 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.Dynamic stressed parts.High chemical resistance parts, hydrolysis resistance, non flammable.Antistatic.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-1105-7916-1-PEEK-with-carbon-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.34 g/cc	1.34 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Â°C/24h
Linear Mold Shrinkage	0.0020 - 0.0080 cm/cm	0.0020 - 0.0080 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	160 MPa	23200 psi	
Elongation at Yield	2.5 %	2.5 %	
	3.3 %	3.3 %	flexural
Modulus of Elasticity	10.0 GPa	1450 ksi	
Flexural Strength	235 MPa	34100 psi	
Flexural Modulus	8.50 GPa	1230 ksi	
Charpy Impact Unnotched	3.00 J/cmÂ²	14.3 ft-lb/inÂ²	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

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 1.00e+10 ohm	<= 1.00e+10 ohm	
Insulation Resistance	<= 1.00e+10 ohm	<= 1.00e+10 ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	390 Â°C	734 Â°F	mass temp

Processing Properties	Metric	English	Comments
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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