

Lehmann & Voss LUVOCOM® 1115/XCF/40 PEK, with carbon fiber

Category : Polymer , Thermoplastic , Polyketone

Material Notes:

Applications: 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-1115XCF40-PEK-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	320 MPa	46400 psi	
Elongation at Yield	1.2 %	1.2 %	
	1.8 %	1.8 %	flexural
Modulus of Elasticity	40.0 GPa	5800 ksi	
Flexural Strength	465 MPa	67400 psi	
Flexural Modulus	35.0 GPa	5080 ksi	
Charpy Impact Unnotched	5.50 J/cmÂ²	26.2 ft-lb/inÂ²	edgewise; ISO 179 1eU

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	260 Â°C	500 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	<= 10000 ohm	<= 10000 ohm	
Insulation Resistance	<= 10000 ohm	<= 10000 ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	390 Â°C	734 Â°F	mass temp
Nozzle Temperature	390 - 420 Â°C	734 - 788 Â°F	
Zone 1	370 - 390 Â°C	698 - 734 Â°F	
Zone 2	380 - 420 Â°C	716 - 788 Â°F	
Zone 3	390 - 420 Â°C	734 - 788 Â°F	
Mold Temperature	180 - 230 Â°C	356 - 446 Â°F	
Drying Temperature	140 Â°C	284 Â°F	Dehumidifying dryer
	@Time 14400 - 21600 sec	@Time 4.00 - 6.00 hour	
	150 Â°C	302 Â°F	or
	@Time 14400 - 28800 sec	@Time 4.00 - 8.00 hour	

Descriptive Properties	Value	Comments
Color	natural color (black)	

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