

Lehmann & Voss LUVOCOM[®] PEKK-7299 Polyether ketone, with carbon fiber, easy flowing

Category : Polymer , Thermoplastic , Polyketone

Material Notes:

Applications: Automotive industry, mechanical- and precision engineering. Improved strength and stiffness at elevated temperatures. Suitable for 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-PEKK-7299-Polyether-ketone-with-carbon-fiber-easy-flowing.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.42 g/cc	1.42 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23 [°] C/24h
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	260 MPa	37700 psi	
Elongation at Yield	1.3 %	1.3 %	
	1.6 %	1.6 %	flexural
Modulus of Elasticity	26.0 GPa	3770 ksi	
Flexural Strength	360 MPa	52200 psi	
Flexural Modulus	22.0 GPa	3190 ksi	
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	edgewise; ISO 179 1eU
Charpy Impact, Notched	0.700 J/cm ²	3.33 ft-lb/in ²	ISO 179 1eA

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	260 [°] C	500 [°] F	
	290 [°] C	554 [°] F	short term
Vicat Softening Point	>= 310 [°] C	>= 590 [°] F	DIN ISO 306
Flammability, UL94	V-0	V-0	not recognized by UL

Electrical Properties	Metric	English	Comments
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Insulation Resistance Electrical Properties	≤ 1000 ohm Metric	≤ 1000 ohm English	Comments
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Processing Properties	Metric	English	Comments
Processing Temperature	390 Å°C	734 Å°F	mass temp
Nozzle Temperature	390 - 420 Å°C	734 - 788 Å°F	
Zone 1	370 - 390 Å°C	698 - 734 Å°F	
Zone 2	380 - 420 Å°C	716 - 788 Å°F	
Zone 3	390 - 420 Å°C	734 - 788 Å°F	
Mold Temperature	180 - 230 Å°C	356 - 446 Å°F	
Drying Temperature	140 Å°C @Time 14400 - 57600 sec	284 Å°F @Time 4.00 - 16.0 hour	Dehumidifying dryer
	150 Å°C @Time 14400 - 28800 sec	302 Å°F @Time 4.00 - 8.00 hour	Air-Circulation Dryer

Descriptive Properties	Value	Comments
Color	black	

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