

Lehmann & Voss LUVOCOM[®] 1105-7442 PEEK, with carbon fiber, easy flowing

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-1105-7442-PEEK-with-carbon-fiber-easy-flowing.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.36 g/cc	1.36 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23 [°] C/24h
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	210 MPa	30500 psi	
Elongation at Yield	2.0 %	2.0 %	
	2.6 %	2.6 %	flexural
Modulus of Elasticity	18.0 GPa	2610 ksi	
Flexural Strength	295 MPa	42800 psi	
Flexural Modulus	15.0 GPa	2180 ksi	
Charpy Impact Unnotched	5.00 J/cm ²	23.8 ft-lb/in ²	edgewise; ISO 179 1eU
Charpy Impact, Notched	0.650 J/cm ²	3.09 ft-lb/in ²	ISO 179 1eA

Thermal Properties	Metric	English	Comments
CTE, linear	16.0 μ m/m- [°] C	8.89 μ in/in- [°] F	DIN 53752
Maximum Service Temperature, Air	250 [°] C	482 [°] F	
	280 [°] C	536 [°] F	short term

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 1e+05	<= 1e+05	

Insulation Resistance Electrical Properties	≤ 100000 ohm Metric	≤ 100000 ohm English	Comments
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Processing Properties	Metric	English	Comments
Processing Temperature	390 Å°C	734 Å°F	mass temp
Nozzle Temperature	360 - 380 Å°C	680 - 716 Å°F	
Zone 1	360 - 370 Å°C	680 - 698 Å°F	
Zone 2	380 - 390 Å°C	716 - 734 Å°F	
Zone 3	390 - 400 Å°C	734 - 752 Å°F	
Mold Temperature	170 - 200 Å°C	338 - 392 Å°F	
Drying Temperature	120 Å°C @Time 21600 - 28800 sec	248 Å°F @Time 6.00 - 8.00 hour	or
	150 Å°C @Time 10800 - 21600 sec	302 Å°F @Time 3.00 - 6.00 hour	Dehumidifying dryer

Descriptive Properties	Value	Comments
Color	black	

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