

Lehmann & Voss LUVOCOM® 1105-7241-1 PEEK, with glass fiber and PTFE

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, Glass Fiber Filled

Material Notes:

Applications: Automotive industry, textile machinery, medical- and precision engineering, aircraft industry.Strong, stiff parts; impact resistance.dynamic stressChemical and hydrolysis resistance parts, non flammable.High dimensionally stable precision parts.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-1105-7241-1-PEEK-with-glass-fiber-and-PTFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.68 g/cc	1.68 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	180 MPa	26100 psi	
Elongation at Yield	2.0 %	2.0 %	
	2.3 %	2.3 %	flexural
Modulus of Elasticity	14.0 GPa	2030 ksi	
Flexural Strength	260 MPa	37700 psi	
Flexural Modulus	12.0 GPa	1740 ksi	
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	edgewise; ISO 179 1eU
	5.10 J/cm ²	24.3 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	250 °C	482 °F	
	280 °C	536 °F	short term
Vicat Softening Point	325 °C	617 °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	$\geq 1.00e+12$ ohm Metric	$\geq 1.00e+12$ ohm English	Comments
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Processing Properties	Metric	English	Comments
Processing Temperature	390 °C	734 °F	mass temp
Nozzle Temperature	360 - 380 °C	680 - 716 °F	
Zone 1	360 - 370 °C	680 - 698 °F	
Zone 2	380 - 390 °C	716 - 734 °F	
Zone 3	390 - 400 °C	734 - 752 °F	
Mold Temperature	170 - 200 °C	338 - 392 °F	
Drying Temperature	120 °C @Time 21600 - 28800 sec	248 °F @Time 6.00 - 8.00 hour	or
	150 °C @Time 10800 - 21600 sec	302 °F @Time 3.00 - 6.00 hour	Dehumidifying dryer

Descriptive Properties	Value	Comments
Color	natural color	

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