

Lehmann & Voss LUVOCOM[®] 1105-8099 PEEK, with mineral filler

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK)

Material Notes:

Applications: Automotive industry, textile machinery, medical- and precision engineering, aircraft industry.Reduced moment of inertia compared with metal parts.Chemical and hydrolysis resistance parts, non flammable.Isotropic shrinkage characteristics.High dimensionally stable precision parts, high continuous use temperature.High quality terminal bar, switches and plugs, relais, lamp reflectors, sterilizable medical equipment.Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1105-8099-PEEK-with-mineral-filler.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.63 g/cc	1.63 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Å°C/24h
Linear Mold Shrinkage	0.010 - 0.016 cm/cm	0.010 - 0.016 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	80.0 MPa	11600 psi	
Elongation at Yield	4.0 %	4.0 %	
	6.0 %	6.0 %	flexural
Modulus of Elasticity	5.00 GPa	725 ksi	
Flexural Strength	120 MPa	17400 psi	
Flexural Modulus	4.00 GPa	580 ksi	
Charpy Impact Unnotched	5.50 J/cm ^Å 2	26.2 ft-lb/in ^Å 2	flatwise; ISO 179 1fU

Thermal Properties	Metric	English	Comments
CTE, linear	40.0 Åµm/m-Å°C	22.2 Åµin/in-Å°F	DIN 53752
Thermal Conductivity	0.350 W/m-K	2.43 BTU-in/hr-ft ^Å 2-Å°F	DIN 52612
Maximum Service Temperature, Air	250 Å°C	482 Å°F	
	270 Å°C	518 Å°F	short term
Flammability, UL94	V-0	V-0	not recognized by UL

Electrical Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Insulation Resistance	$\geq 1.00 \times 10^{12}$ ohm	$\geq 1.00 \times 10^{12}$ ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	390 Â°C	734 Â°F	mass temp
Nozzle Temperature	360 - 380 Â°C	680 - 716 Â°F	
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 @Time 21600 - 28800 sec	248 Â°F @Time 6.00 - 8.00 hour	or
	150 Â°C @Time 10800 - 21600 sec	302 Â°F @Time 3.00 - 6.00 hour	Dehumidifying dryer

Descriptive Properties	Value	Comments
Color	natural color (beige)	

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