

Lehmann & Voss LUVOCOM[®] 1105-7128 PEEK, with glass fiber, low-warpage

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

Material Notes:

Applications: Automotive industry, textile machinery, medical- and precision engineering, aircraft industry. Chemical and hydrolysis resistance parts. Not flammable. High continuous use temperature. High dimensionally stable precision parts. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1105-7128-PEEK-with-glass-fiber-low-warpage.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.51 g/cc	1.51 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Â°C/24h
Linear Mold Shrinkage	0.0080 - 0.015 cm/cm	0.0080 - 0.015 in/in	
Melt Flow	19.63 g/10 min @Load 10.0 kg, Temperature 380 Â°C	19.63 g/10 min @Load 22.0 lb, Temperature 716 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	88.0 MPa	12800 psi	
Elongation at Yield	2.6 %	2.6 %	
	3.5 %	3.5 %	flexural
Modulus of Elasticity	7.00 GPa	1020 ksi	
Flexural Strength	120 MPa	17400 psi	
Flexural Modulus	6.00 GPa	870 ksi	
Charpy Impact Unnotched	4.50 J/cmÂ²	21.4 ft-lb/inÂ²	flatwise; ISO 179 1fU
Charpy Impact, Notched	4.00 J/cmÂ² @Temperature -30.0 Â°C	19.0 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179 eA

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 Âµm/m-Â°C	16.7 Âµin/in-Â°F	DIN 53752
Thermal Conductivity	0.400 W/m-K	2.78 BTU-in/hr-ftÂ²- Â°F	DIN 52612
Maximum Service Temperature, Air	250 Â°C	482 Â°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	315 Â°C	599 Â°F	
Flammability, UL94	V-0	V-0	not recognized by UL

Electrical Properties	Metric	English	Comments
Insulation Resistance	>= 1.00e+12 ohm	>= 1.00e+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	

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