

## Lehmann & Voss LUVOCOM<sup>®</sup> 1105-0948/YL2 PEEK, with glass fiber

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 stressed parts at high movement velocity.Chemical and hydrolysis resistance parts, non flammable.High dimensionally stable precision parts, high continuous use temperature.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-1105-0948YL2-PEEK-with-glass-fiber.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1105-0948YL2-PEEK-with-glass-fiber.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.56 g/cc	1.56 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Â°C/24h
Linear Mold Shrinkage	0.0030 - 0.0070 cm/cm	0.0030 - 0.0070 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	135 MPa	19600 psi	
Elongation at Yield	2.2 %	2.2 %	
	3.0 %	3.0 %	flexural
Modulus of Elasticity	9.00 GPa	1310 ksi	
Flexural Strength	190 MPa	27600 psi	
Flexural Modulus	7.00 GPa	1020 ksi	
Charpy Impact Unnotched	3.50 J/cm <sup>2</sup>	16.7 ft-lb/in <sup>2</sup>	flatwise; ISO 179 1fU

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	250 Â°C	482 Â°F	
	280 Â°C	536 Â°F	short term
Deflection Temperature at 1.8 MPa (264 psi)	285 Â°C	545 Â°F	
Vicat Softening Point	320 Â°C	608 Â°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 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	green beige	

## Contact Songhan Plastic Technology Co.,Ltd.

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