

## Lehmann & Voss LUVOCOM<sup>®</sup> 1105-0779/WT 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.High chemical resistance parts, hydrolysis resistance, non flammable.High dimensionally stable precision parts, high continuous use temperature.Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lehmann-Voss-LUVOCOM-1105-0779WT-PEEK-with-glass-fiber.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1105-0779WT-PEEK-with-glass-fiber.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.58 g/cc	1.58 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23 <sup>°</sup> C/24h
Linear Mold Shrinkage	0.0030 - 0.0070 cm/cm	0.0030 - 0.0070 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	140 MPa	20300 psi	
Elongation at Yield	2.0 %	2.0 %	
	3.0 %	3.0 %	flexural
Modulus of Elasticity	11.0 GPa	1600 ksi	
Flexural Strength	195 MPa	28300 psi	
Flexural Modulus	9.00 GPa	1310 ksi	
Charpy Impact Unnotched	5.00 J/cm <sup>2</sup>	23.8 ft-lb/in <sup>2</sup>	flatwise; ISO 179 1fU
	4.50 J/cm <sup>2</sup>	21.4 ft-lb/in <sup>2</sup>	ISO 179
	@Temperature -30.0 <sup>°</sup> C	@Temperature -22.0 <sup>°</sup> F	
Charpy Impact, Notched	0.800 J/cm <sup>2</sup>	3.81 ft-lb/in <sup>2</sup>	ISO 179 1eA
	0.700 J/cm <sup>2</sup>	3.33 ft-lb/in <sup>2</sup>	ISO 179 eA
	@Temperature -30.0 <sup>°</sup> C	@Temperature -22.0 <sup>°</sup> F	

Thermal Properties	Metric	English	Comments
CTE, linear	22.0 <sup>μ</sup> m/m- <sup>°</sup> C	12.2 <sup>μ</sup> in/in- <sup>°</sup> F	DIN 53752
Thermal Conductivity	0.400 W/m-K	2.78 BTU-in/hr-ft <sup>2</sup> - <sup>°</sup> F	DIN 52612

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	250 Å°C	482 Å°F	
	260 Å°C	500 Å°F	short term
Deflection Temperature at 1.8 MPa (264 psi)	255 Å°C	491 Å°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 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	248 Å°F	or
	@Time 21600 - 28800 sec	@Time 6.00 - 8.00 hour	
	150 Å°C	302 Å°F	Dehumidifying dryer
	@Time 10800 - 21600 sec	@Time 3.00 - 6.00 hour	

Descriptive Properties	Value	Comments
Color	grey white	

## Contact Songhan Plastic Technology Co.,Ltd.

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