

## Lehmann & Voss LUVOCOM<sup>®</sup> 1105-7301 PEEK, unreinforced, laser markable

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

### Material Notes:

Applications: Automotive industry, textile machinery, medical- and precision engineering, aircraft industry. Especially suitable for medical parts, superheated steam sterilizable, hydrolysis resistance. Suitable for biocompatible application. High chemical resistance parts, non flammable. Inherent flame resistance. Information provided by Lehmann & Voss & Co. KG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lehmann-Voss-LUVOCOM-1105-7301-PEEK-unreinforced-laser-markable.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1105-7301-PEEK-unreinforced-laser-markable.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ISO 1183
Water Absorption	<= 0.50 %	<= 0.50 %	23Â°C/24h
Linear Mold Shrinkage	0.010 - 0.016 cm/cm	0.010 - 0.016 in/in	
Melt Flow	27.3 g/10 min @Load 10.0 kg, Temperature 380 Â°C	27.3 g/10 min @Load 22.0 lb, Temperature 716 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	95.0 MPa	13800 psi	
Elongation at Yield	5.0 %	5.0 %	
	6.0 %	6.0 %	flexural
Modulus of Elasticity	3.50 GPa	508 ksi	
Flexural Strength	140 MPa	20300 psi	
Flexural Modulus	3.00 GPa	435 ksi	
Charpy Impact Unnotched	3.50 J/cmÂ²	16.7 ft-lb/inÂ²	flatwise; ISO 179 1fU
Charpy Impact, Notched	0.800 J/cmÂ²	3.81 ft-lb/inÂ²	ISO 179 1eA
Coefficient of Friction, Dynamic	0.26	0.26	
Coefficient of Friction, Static	0.22	0.22	

Thermal Properties	Metric	English	Comments
CTE, linear	47.0 Âµm/m-Â°C	26.1 Âµin/in-Â°F	DIN 53752
Thermal Conductivity	0.250 W/m-K	1.74 BTU-in/hr-ftÂ²- Â°F	DIN 52612

Thermal Properties	Metric	English	Comments
Temperature, Air	260 Â°C	500 Â°F	short term
Deflection Temperature at 1.8 MPa (264 psi)	152 Â°C	306 Â°F	
Vicat Softening Point	300 Â°C	572 Â°F	DIN ISO 306
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	black	

## Contact Songhan Plastic Technology Co.,Ltd.

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