

## Lehmann & Voss LUVOCOM® 1105-7373 PEEK, with carbon fiber, lubricant modified

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

### Material Notes:

Applications: Automotive industry, textile machinery, medical- and precision engineering, aircraft industry.Strong, stiff parts; low thermal coefficient of expansion.Chemical and hydrolysis resistance parts, non flammable.Improved friction and wear behaviour. Emergency running property.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-1105-7373-PEEK-with-carbon-fiber-lubricant-modified.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1105-7373-PEEK-with-carbon-fiber-lubricant-modified.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.62 g/cc	1.62 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Â°C/24h
Linear Mold Shrinkage	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	
Melt Flow	19.44 g/10 min @Load 10.0 kg, Temperature 380 Â°C	19.44 g/10 min @Load 22.0 lb, Temperature 716 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	145 MPa	21000 psi	
Elongation at Yield	1.8 %	1.8 %	
	2.3 %	2.3 %	flexural
Modulus of Elasticity	13.0 GPa	1890 ksi	
Flexural Strength	200 MPa	29000 psi	
Flexural Modulus	11.0 GPa	1600 ksi	
Charpy Impact Unnotched	3.20 J/cmÂ²	15.2 ft-lb/inÂ²	edgewise; ISO 179 1eU
	3.00 J/cmÂ² @Temperature -30.0 Â°C	14.3 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179
Coefficient of Friction, Dynamic	0.14	0.14	
Coefficient of Friction, Static	0.12	0.12	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	250 Â°C	482 Â°F	
	270 Â°C	518 Â°F	short term
Deflection Temperature at 1.8 MPa (264 psi)	260 Â°C	500 Â°F	
Vicat Softening Point	320 Â°C	608 Â°F	DIN ISO 306

Electrical Properties	Metric	English	Comments
Insulation Resistance	>= 100000 ohm	>= 100000 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	slate grey	

## Contact Songhan Plastic Technology Co.,Ltd.

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