

## Lehmann & Voss LUVOCOM<sup>®</sup> 1105-8160 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.Dynamic stressed parts at high movement velocity.Chemical and hydrolysis resistance parts, non flammable.Improved friction and wear behaviour, self-lubricating, for highest tribologic needs.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-1105-8160-PEEK-with-carbon-fiber-lubricant-modified.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1105-8160-PEEK-with-carbon-fiber-lubricant-modified.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.42 g/cc	1.42 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	56.8 g/10 min @Load 10.0 kg, Temperature 380 Â°C	56.8 g/10 min @Load 22.0 lb, Temperature 716 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	180 MPa	26100 psi	
Elongation at Yield	1.9 %	1.9 %	
	2.4 %	2.4 %	flexural
Modulus of Elasticity	14.0 GPa	2030 ksi	
Flexural Strength	250 MPa	36300 psi	
Flexural Modulus	12.0 GPa	1740 ksi	
Charpy Impact Unnotched	3.50 J/cmÂ²	16.7 ft-lb/inÂ²	edgewise; ISO 179 1eU

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)	260 Â°C	500 Â°F	
Vicat Softening Point	295 Â°C	563 Â°F	DIN ISO 306

Thermal Properties	Metric	English	Comments
Flammability, UL 94	V-0	V-0	not recognized by UL

Electrical Properties	Metric	English	Comments
Surface Resistance	$\leq 1.00e+8$ ohm	$\leq 1.00e+8$ ohm	
Insulation Resistance	$\leq 1.00e+9$ ohm	$\leq 1.00e+9$ 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	248 Â°F	or
	@Time 21600 - 28800 sec	@Time 6.00 - 8.00 hour	
	150 Â°C	302 Â°F	Dehumidifying dryer
	@Time 10800 - 21600 sec	@Time 3.00 - 6.00 hour	

Descriptive Properties	Value	Comments
Color	natural color (black)	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China