

## Lehmann & Voss LUVOCOM<sup>®</sup> 1105-8451 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. Chemical and hydrolysis resistance parts, non flammable. High dimensionally stable precision parts. Low warpage. Control disks, cams, sliding elements and other duty parts. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lehmann-Voss-LUVOCOM-1105-8451-PEEK-with-carbon-fiber-lubricant-modified.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1105-8451-PEEK-with-carbon-fiber-lubricant-modified.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.75 g/cc	1.75 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Å°C/24h
Linear Mold Shrinkage	0.0050 - 0.010 cm/cm	0.0050 - 0.010 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	105 MPa	15200 psi	
Elongation at Yield	2.1 %	2.1 %	
	2.5 %	2.5 %	flexural
Modulus of Elasticity	8.00 GPa	1160 ksi	
Flexural Strength	145 MPa	21000 psi	
Flexural Modulus	6.50 GPa	943 ksi	
Charpy Impact Unnotched	2.50 J/cm <sup>Å</sup> 2	11.9 ft-lb/in <sup>Å</sup> 2	flatwise; ISO 179 1fU
Charpy Impact, Notched	0.600 J/cm <sup>Å</sup> 2	2.86 ft-lb/in <sup>Å</sup> 2	ISO 179 1eA

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	250 Å°C	482 Å°F	
	260 Å°C	500 Å°F	short term
Vicat Softening Point	305 Å°C	581 Å°F	DIN ISO 306
Flammability, UL94	V-0	V-0	not recognized by UL

Electrical Properties	Metric	English	Comments
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Surface Resistance Electrical Properties	$\geq 1.00e+10$ ohm Metric	$\geq 1.00e+10$ ohm English	Comments
Insulation Resistance	$\geq 1.00e+10$ ohm	$\geq 1.00e+10$ 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	natural color (grey)	

## Contact Songhan Plastic Technology Co.,Ltd.

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