

## Lehmann & Voss LUVOCOM<sup>®</sup> 1114-8364 PAEK, with carbon fiber, PTFE, lubricant modified

Category : Polymer , Thermoplastic , Polyketone , Polyaryletherketone (PAEK), Carbon Fiber Filled

### Material Notes:

Applications: Automotive industry, textile machinery, medical- and precision engineering, aircraft industry. Good friction and wear behaviour especially at increased temperatures. Electrically conductive, suitable for continuous discharging of statically generated electricity. Thermic, mechanic and chemical highly stressed parts. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lehmann-Voss-LUVOCOM-1114-8364-PAEK-with-carbon-fiber-PTFE-lubricant-modified.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1114-8364-PAEK-with-carbon-fiber-PTFE-lubricant-modified.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23 <sup>°</sup> C/24h
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	190 MPa	27600 psi	
Elongation at Yield	1.7 %	1.7 %	
	2.2 %	2.2 %	flexural
Modulus of Elasticity	18.0 GPa	2610 ksi	
Flexural Strength	260 MPa	37700 psi	
Flexural Modulus	15.0 GPa	2180 ksi	
Charpy Impact Unnotched	3.00 J/cm <sup>2</sup>	14.3 ft-lb/in <sup>2</sup>	flatwise; ISO 179 1fU
	2.50 J/cm <sup>2</sup>	11.9 ft-lb/in <sup>2</sup>	ISO 179
	@Temperature -30.0 <sup>°</sup> C	@Temperature -22.0 <sup>°</sup> F	

Thermal Properties	Metric	English	Comments
CTE, linear	5.00 $\mu$ m/m- <sup>°</sup> C	2.78 $\mu$ in/in- <sup>°</sup> F	DIN 53752
Maximum Service Temperature, Air	255 <sup>°</sup> C	491 <sup>°</sup> F	
Deflection Temperature at 1.8 MPa (264 psi)	305 <sup>°</sup> C	581 <sup>°</sup> F	
Vicat Softening Point	320 <sup>°</sup> C	608 <sup>°</sup> F	DIN ISO 306

Flammability, UL 94 Thermal Properties	V-0 Metric	V-0 English	not recognized by UL Comments
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Electrical Properties	Metric	English	Comments
Surface Resistance	<= 10000 ohm	<= 10000 ohm	
Insulation Resistance	<= 100000 ohm	<= 100000 ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	390 Â°C	734 Â°F	mass temp
Nozzle Temperature	390 - 420 Â°C	734 - 788 Â°F	
Zone 1	370 - 420 Â°C	698 - 788 Â°F	
Zone 2	380 - 420 Â°C	716 - 788 Â°F	
Zone 3	390 - 420 Â°C	734 - 788 Â°F	
Mold Temperature	160 - 230 Â°C	320 - 446 Â°F	
Drying Temperature	120 Â°C @Time 21600 - 36000 sec	248 Â°F @Time 6.00 - 10.0 hour	or
	150 Â°C @Time 14400 - 21600 sec	302 Â°F @Time 4.00 - 6.00 hour	Dehumidifying dryer

Descriptive Properties	Value	Comments
Color	dark grey	

## Contact Songhan Plastic Technology Co.,Ltd.

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