

## Lehmann & Voss LUVOCOM® 1301/CF/10/GF/20/GK/20/BK100 PPS, linear, with carbon fiber, glass fiber and micro glass spheres

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS) with 10% Carbon Fiber Filler

### Material Notes:

Applications: Automotive industry, textile-and office machinery, medical- and precision engineering.High continuous use and heat distortion temperature. Non flammable.High-strength and stiff parts with low creep.Electrically conductive, suitable for continuous discharging of statically generated electricity.Suitable for metall inserts.Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lehmann-Voss-LUVOCOM-1301CF10GF20GK20BK100-PPS-linear-with-carbon-fiber-glass-fiber-and-micro-glass-spheres.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1301CF10GF20GK20BK100-PPS-linear-with-carbon-fiber-glass-fiber-and-micro-glass-spheres.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.69 g/cc	1.69 g/cc	ISO 1183
Water Absorption	<= 0.050 %	<= 0.050 %	23°C/24h
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	
Melt Flow	25 g/10 min @Load 2.16 kg, Temperature 320 °C	25 g/10 min @Load 4.76 lb, Temperature 608 °F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	130 MPa	18900 psi	
Elongation at Yield	1.0 %	1.0 %	
	1.0 %	1.0 %	flexural
Modulus of Elasticity	21.0 GPa	3050 ksi	
Flexural Strength	195 MPa	28300 psi	
Flexural Modulus	19.0 GPa	2760 ksi	
Charpy Impact Unnotched	1.50 J/cm <sup>2</sup>	7.14 ft-lb/in <sup>2</sup>	flatwise; ISO 179 1fU
Coefficient of Friction, Dynamic	0.25	0.25	
Coefficient of Friction, Static	0.30	0.30	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	220 °C	428 °F	
	240 °C	464 °F	short term

Vicat Softening Point Thermal Properties	255 °C Metric	491 °F English	DIN ISO 306 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	330 °C	626 °F	mass temp
Nozzle Temperature	320 - 340 °C	608 - 644 °F	
Zone 1	300 - 320 °C	572 - 608 °F	
Zone 2	310 - 330 °C	590 - 626 °F	
Zone 3	320 - 340 °C	608 - 644 °F	
Mold Temperature	150 - 180 °C	302 - 356 °F	
Drying Temperature	50.0 - 90.0 °C @Time >=14400 sec	122 - 194 °F @Time >=4.00 hour	
	100 - 140 °C @Time 7200 - 14400 sec	212 - 284 °F @Time 2.00 - 4.00 hour	Dehumidifying dryer

Descriptive Properties	Value	Comments
Color	black	

## Contact Songhan Plastic Technology Co.,Ltd.

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