

## Lehmann & Voss LUVOCOM® 1700-1401 PPO, with carbon fiber and glass fiber

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO

### Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Strong, stiff parts; low thermal coefficient of expansion. Electrically conductive, suitable for continuous discharging of statically generated electricity. High dimensionally stable precision parts with low warpage and narrow tolerance range. 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-1700-1401-PPO-with-carbon-fiber-and-glass-fiber.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1700-1401-PPO-with-carbon-fiber-and-glass-fiber.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	ISO 1183
Water Absorption	<= 0.060 %	<= 0.060 %	23Â°C/24h
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	
Melt Flow	15 g/10 min @Load 5.00 kg, Temperature 300 Â°C	15 g/10 min @Load 11.0 lb, Temperature 572 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	100 MPa	14500 psi	
Elongation at Yield	1.5 %	1.5 %	
	2.0 %	2.0 %	flexural
Modulus of Elasticity	7.50 GPa	1090 ksi	
Flexural Strength	125 MPa	18100 psi	
Flexural Modulus	8.00 GPa	1160 ksi	
Charpy Impact Unnotched	1.80 J/cmÂ²	8.57 ft-lb/inÂ²	flatwise; ISO 179 1fU
	1.60 J/cmÂ² @Temperature -30.0 Â°C	7.61 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179
Charpy Impact, Notched	0.900 J/cmÂ²	4.28 ft-lb/inÂ²	ISO 179 1eA
	0.700 J/cmÂ² @Temperature -30.0 Â°C	3.33 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179 eA

Mechanical Properties <i>Dynamic</i>	Metric	English	Comments
Coefficient of Friction, Static	0.20	0.20	

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	27.8 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	DIN 53752
Thermal Conductivity	0.330 W/m-K	2.29 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	DIN 52612
Maximum Service Temperature, Air	110 $\text{Å}^\circ\text{C}$	230 $\text{Å}^\circ\text{F}$	
Vicat Softening Point	145 $\text{Å}^\circ\text{C}$	293 $\text{Å}^\circ\text{F}$	DIN ISO 306
Flammability, UL94	V-0	V-0	not recognized by UL

Electrical Properties	Metric	English	Comments
Surface Resistance	$\leq 1000$ ohm	$\leq 1000$ ohm	
Insulation Resistance	$\leq 10000$ ohm	$\leq 10000$ ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	280 $\text{Å}^\circ\text{C}$	536 $\text{Å}^\circ\text{F}$	mass temp
Nozzle Temperature	285 - 295 $\text{Å}^\circ\text{C}$	545 - 563 $\text{Å}^\circ\text{F}$	
Zone 1	270 - 280 $\text{Å}^\circ\text{C}$	518 - 536 $\text{Å}^\circ\text{F}$	
Zone 2	270 - 300 $\text{Å}^\circ\text{C}$	518 - 572 $\text{Å}^\circ\text{F}$	
Zone 3	290 - 305 $\text{Å}^\circ\text{C}$	554 - 581 $\text{Å}^\circ\text{F}$	
Mold Temperature	70.0 - 120 $\text{Å}^\circ\text{C}$	158 - 248 $\text{Å}^\circ\text{F}$	
Drying Temperature	95.0 - 110 $\text{Å}^\circ\text{C}$ @Time $\leq 7200$ sec	203 - 230 $\text{Å}^\circ\text{F}$ @Time $\leq 2.00$ hour	Dehumidifying dryer

Descriptive Properties	Value	Comments
Color	natural color (black)	

## Contact Songhan Plastic Technology Co.,Ltd.

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