

## Lehmann & Voss LUVOCOM<sup>®</sup> 1/CF/20 Polyamide 66, with carbon fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 10% Carbon Fiber Filled

### Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. High-strength and high-stiff parts; low coefficient of expansion. Reduced moment of inertia compared with metal parts. Electrically conductive, suitable for continuous discharging of statically generated electricity. High dimensionally stable precision parts with low warpage and narrow tolerance range. Gear parts for automotive appliances, control disks, cams, sliding elements. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lehmann-Voss-LUVOCOM-1CF20-Polyamide-66-with-carbon-fiber.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1CF20-Polyamide-66-with-carbon-fiber.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 g/cc	ISO 1183
Water Absorption	<= 1.0 %	<= 1.0 %	23Å°C/24h
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	210 MPa	30500 psi	
Elongation at Yield	2.0 %	2.0 %	
	3.5 %	3.5 %	flexural
Modulus of Elasticity	14.0 GPa	2030 ksi	
Flexural Strength	315 MPa	45700 psi	
Flexural Modulus	12.0 GPa	1740 ksi	
Charpy Impact Unnotched	4.00 J/cm <sup>Å</sup> 2	19.0 ft-lb/in <sup>Å</sup> 2	flatwise; ISO 179 1fU
	3.60 J/cm <sup>Å</sup> 2	17.1 ft-lb/in <sup>Å</sup> 2	ISO 179
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
Charpy Impact, Notched	1.40 J/cm <sup>Å</sup> 2	6.66 ft-lb/in <sup>Å</sup> 2	ISO 179 1eA
	0.800 J/cm <sup>Å</sup> 2	3.81 ft-lb/in <sup>Å</sup> 2	ISO 179 eA
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
Coefficient of Friction, Dynamic	0.21	0.21	
Coefficient of Friction, Static	0.17	0.17	

Thermal Properties	Metric	English	Comments
CTE, linear	18.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	10.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	DIN 53752
Thermal Conductivity	1.00 W/m-K	6.94 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	HOT-DISK    60x60x3 mm
Maximum Service Temperature, Air	100 $\text{Å}^\circ\text{C}$	212 $\text{Å}^\circ\text{F}$	
	160 $\text{Å}^\circ\text{C}$	320 $\text{Å}^\circ\text{F}$	short term
Vicat Softening Point	255 $\text{Å}^\circ\text{C}$	491 $\text{Å}^\circ\text{F}$	DIN ISO 306

Electrical Properties	Metric	English	Comments
Surface Resistance	$\leq 1000$ ohm	$\leq 1000$ ohm	
Insulation Resistance	$\leq 100000$ ohm	$\leq 100000$ ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	290 $\text{Å}^\circ\text{C}$	554 $\text{Å}^\circ\text{F}$	mass temp
Nozzle Temperature	280 - 300 $\text{Å}^\circ\text{C}$	536 - 572 $\text{Å}^\circ\text{F}$	
Zone 1	290 - 310 $\text{Å}^\circ\text{C}$	554 - 590 $\text{Å}^\circ\text{F}$	
Zone 2	290 - 310 $\text{Å}^\circ\text{C}$	554 - 590 $\text{Å}^\circ\text{F}$	
Zone 3	290 - 310 $\text{Å}^\circ\text{C}$	554 - 590 $\text{Å}^\circ\text{F}$	
Mold Temperature	90.0 - 120 $\text{Å}^\circ\text{C}$	194 - 248 $\text{Å}^\circ\text{F}$	
Drying Temperature	75.0 $\text{Å}^\circ\text{C}$ @Time 21600 - 57600 sec	167 $\text{Å}^\circ\text{F}$ @Time 6.00 - 16.0 hour	Dehumidifying dryer
	105 $\text{Å}^\circ\text{C}$ @Time 14400 - 21600 sec	221 $\text{Å}^\circ\text{F}$ @Time 4.00 - 6.00 hour	Vacuum Dryer

Descriptive Properties	Value	Comments
Color	black	

## Contact Songhan Plastic Technology Co.,Ltd.

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