

## Lehmann & Voss LUVOCOM<sup>®</sup> 1/CF/10/TF/20/GY Polyamide 66, with carbon fiber and PTFE, heat stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Carbon Fiber/PTFE Filled

### Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Improved friction and wear behaviour. Emergency running property. Electrically conductive, suitable for continuous discharging of statically generated electricity. 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-1CF10TF20GY-Polyamide-66-with-carbon-fiber-and-PTFE-heat-stabilized.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1CF10TF20GY-Polyamide-66-with-carbon-fiber-and-PTFE-heat-stabilized.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ISO 1183
Water Absorption	<= 1.0 %	<= 1.0 %	23Â°C/24h
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	160 MPa	23200 psi	
Elongation at Yield	3.0 %	3.0 %	
	3.5 %	3.5 %	flexural
Modulus of Elasticity	10.0 GPa	1450 ksi	
Flexural Strength	230 MPa	33400 psi	
Flexural Modulus	8.00 GPa	1160 ksi	
Charpy Impact Unnotched	4.60 J/cm <sup>2</sup>	21.9 ft-lb/in <sup>2</sup>	edgewise; ISO 179 1eU
Coefficient of Friction, Dynamic	0.18	0.18	
Coefficient of Friction, Static	0.11	0.11	

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 Âµm/m-Â°C	16.7 Âµin/in-Â°F	DIN 53752
Thermal Conductivity	0.330 W/m-K	2.29 BTU-in/hr-ft <sup>2</sup> -Â°F	DIN 52612
Maximum Service Temperature, Air	120 Â°C	248 Â°F	
	160 Â°C	320 Â°F	short term

Thermal Properties (204 psi) Temperature at 1.8 MPa	Metric	English	Comments
Vicat Softening Point	250 Â°C	482 Â°F	DIN ISO 306

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 10000 ohm	<= 10000 ohm	
Insulation Resistance	<= 100000 ohm	<= 100000 ohm	

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

Descriptive Properties	Value	Comments
Color	grey	

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