

## Lehmann & Voss LUVOCOM<sup>®</sup> 3/CF/30 Polyamide 6, with carbon fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Carbon Fiber Filled

### Material Notes:

Applications: Automotive industry, textile machinery, apparatus- and precision engineering.High-strength and stiff parts; low coefficient of expansion.dynamic stressElectrically conductive, suitable for continuous discharging of statically generated electricity.Handles, levers, rollers, extrusion profiles.Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lehmann-Voss-LUVOCOM-3CF30-Polyamide-6-with-carbon-fiber.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-3CF30-Polyamide-6-with-carbon-fiber.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.28 g/cc	1.28 g/cc	ISO 1183
Water Absorption	<= 1.0 %	<= 1.0 %	23Â°C/24h
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	210 MPa	30500 psi	
Elongation at Yield	3.0 %	3.0 %	
	3.0 %	3.0 %	flexural
Modulus of Elasticity	16.0 GPa	2320 ksi	
Flexural Strength	315 MPa	45700 psi	
Flexural Modulus	15.0 GPa	2180 ksi	
Charpy Impact Unnotched	5.00 J/cm <sup>Â²</sup>	23.8 ft-lb/in <sup>Â²</sup>	flatwise; ISO 179 1fU
	4.50 J/cm <sup>Â²</sup>	21.4 ft-lb/in <sup>Â²</sup>	ISO 179
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear	20.0 Âµm/m-Â°C	11.1 Âµin/in-Â°F	DIN 53752
Thermal Conductivity	0.500 W/m-K	3.47 BTU-in/hr-ft <sup>Â²</sup> - Â°F	DIN 52612
Maximum Service Temperature, Air	90.0 Â°C	194 Â°F	
	210 Â°C	410 Â°F	short term
Deflection Temperature at 1.8 MPa	210 Â°C	410 Â°F	

(264 psi) Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Surface Resistance	<= 1000 ohm	<= 1000 ohm	
Insulation Resistance	<= 1000 ohm	<= 1000 ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	270 Â°C	518 Â°F	mass temp
Nozzle Temperature	270 - 280 Â°C	518 - 536 Â°F	
Zone 1	250 - 270 Â°C	482 - 518 Â°F	
Zone 2	270 - 290 Â°C	518 - 554 Â°F	
Zone 3	280 - 300 Â°C	536 - 572 Â°F	
Mold Temperature	70.0 - 110 Â°C	158 - 230 Â°F	
Drying Temperature	75.0 Â°C @Time 36000 - 57600 sec	167 Â°F @Time 10.0 - 16.0 hour	Dehumidifying dryer
	105 Â°C @Time 14400 - 21600 sec	221 Â°F @Time 4.00 - 6.00 hour	or

Descriptive Properties	Value	Comments
Color	natural color (black)	

## Contact Songhan Plastic Technology Co.,Ltd.

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