

## Lehmann & Voss LUVOCOM<sup>®</sup> 6/CF/30 Polyamide 12, with carbon fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 12 , Nylon 12, Carbon Fiber Filled

### Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Strong, stiff parts. Especially suitable at dynamic stress situations. Electrically conductive, suitable for continuous discharging of statically generated electricity. Low waterabsorbtion, for dimensional stable precision parts. Bearings, sleeves, sliding elements, chair rollers, handles. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lehmann-Voss-LUVOCOM-6CF30-Polyamide-12-with-carbon-fiber.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-6CF30-Polyamide-12-with-carbon-fiber.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Å°C/24h
Linear Mold Shrinkage	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	165 MPa	23900 psi	
Elongation at Yield	3.7 %	3.7 %	
	5.0 %	5.0 %	flexural
Modulus of Elasticity	16.0 GPa	2320 ksi	
Flexural Strength	240 MPa	34800 psi	
Flexural Modulus	14.0 GPa	2030 ksi	
Charpy Impact Unnotched	5.50 J/cm <sup>Å</sup> 2	26.2 ft-lb/in <sup>Å</sup> 2	flatwise; ISO 179 1fU
	5.00 J/cm <sup>Å</sup> 2	23.8 ft-lb/in <sup>Å</sup> 2	ISO 179
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
Charpy Impact, Notched	2.00 J/cm <sup>Å</sup> 2	9.52 ft-lb/in <sup>Å</sup> 2	ISO 179 1eA
	1.80 J/cm <sup>Å</sup> 2	8.57 ft-lb/in <sup>Å</sup> 2	ISO 179 eA
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	

Thermal Properties	Metric	English	Comments
CTE, linear	25.0 Åµm/m-Å°C	13.9 Åµin/in-Å°F	DIN 53752

Thermal Properties	0.500 W/m-K Metric	3.47 BTU-in/hr-ftÂ°- English	DIN 52612 Comments
Maximum Service Temperature, Air	90.0 Â°C	194 Â°F	
	140 Â°C	284 Â°F	short term
Vicat Softening Point	170 Â°C	338 Â°F	DIN ISO 306

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 100 ohm	<= 100 ohm	
Insulation Resistance	<= 100 ohm	<= 100 ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	250 Â°C	482 Â°F	mass temp
Nozzle Temperature	250 - 260 Â°C	482 - 500 Â°F	
Zone 1	230 - 250 Â°C	446 - 482 Â°F	
Zone 2	240 - 260 Â°C	464 - 500 Â°F	
Zone 3	250 - 270 Â°C	482 - 518 Â°F	
Mold Temperature	70.0 - 110 Â°C	158 - 230 Â°F	
Drying Temperature	75.0 Â°C @Time 21600 - 36000 sec	167 Â°F @Time 6.00 - 10.0 hour	Dehumidifying dryer
	105 Â°C @Time <=14400 sec	221 Â°F @Time <=4.00 hour	or

Descriptive Properties	Value	Comments
Color	natural color (black)	

## Contact Songhan Plastic Technology Co.,Ltd.

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