

## Lehmann & Voss LUVOCOM<sup>®</sup> 3/CF/12/EG Polyamide 6, with carbon fiber, high viscosity

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-3CF12EG-Polyamide-6-with-carbon-fiber-high-viscosity.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-3CF12EG-Polyamide-6-with-carbon-fiber-high-viscosity.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ISO 1183
Water Absorption	<= 1.3 %	<= 1.3 %	23Å°C/24h
Linear Mold Shrinkage	0.0030 - 0.0070 cm/cm	0.0030 - 0.0070 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	140 MPa	20300 psi	
Elongation at Yield	3.0 %	3.0 %	
	4.5 %	4.5 %	flexural
Modulus of Elasticity	7.50 GPa	1090 ksi	
Flexural Strength	210 MPa	30500 psi	
Flexural Modulus	7.00 GPa	1020 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
	4.50 J/cm <sup>Å</sup> 2	21.4 ft-lb/in <sup>Å</sup> 2	ISO 179
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
Coefficient of Friction, Dynamic	0.24	0.24	
Coefficient of Friction, Static	0.20	0.20	

Thermal Properties	Metric	English	Comments
CTE, linear	40.0 Åµm/m-Å°C	22.2 Åµin/in-Å°F	DIN 53752
Thermal Conductivity	0.330 W/m-K	2.29 BTU-in/hr-ft <sup>Å</sup> 2-Å°F	DIN 52612

Maximum Service Temperature, Air Thermal Properties	90.0 Å°C Metric	194 Å°F English	Comments
	130 Å°C	266 Å°F	short term
Vicat Softening Point	210 Å°C	410 Å°F	DIN ISO 306

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 1e+05	<= 1e+05	
Insulation Resistance	<= 1.00e+6 ohm	<= 1.00e+6 ohm	

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