

## Lehmann & Voss LUVOCOM<sup>®</sup> 3-7088-1 Polyamide 6, with carbon fiber and glass fiber, low-warpage

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

### Material Notes:

Applications: Automotive industry, textile machinery, apparatus- and precision engineering.Strong, stiff parts.dynamic stressElectrically conductive, suitable for continuous discharging of statically generated electricity.Handles, levers, rollers, body parts.Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lehmann-Voss-LUVOCOM-3-7088-1-Polyamide-6-with-carbon-fiber-and-glass-fiber-low-warpage.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-3-7088-1-Polyamide-6-with-carbon-fiber-and-glass-fiber-low-warpage.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.28 g/cc	1.28 g/cc	ISO 1183
Water Absorption	<= 1.3 %	<= 1.3 %	23Â°C/24h
Linear Mold Shrinkage	0.0020 - 0.0060 cm/cm	0.0020 - 0.0060 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	140 MPa	20300 psi	
Elongation at Yield	2.5 %	2.5 %	
	3.0 %	3.0 %	flexural
Modulus of Elasticity	10.0 GPa	1450 ksi	
Flexural Strength	200 MPa	29000 psi	
Flexural Modulus	8.00 GPa	1160 ksi	
Charpy Impact Unnotched	4.50 J/cm <sup>Â</sup> 2	21.4 ft-lb/in <sup>Â</sup> 2	edgewise; ISO 179 1eU
Charpy Impact, Notched	0.600 J/cm <sup>Â</sup> 2	2.86 ft-lb/in <sup>Â</sup> 2	ISO 179 1eA

Thermal Properties	Metric	English	Comments
CTE, linear	27.0 Âµm/m-Â°C	15.0 Âµin/in-Â°F	DIN 53752
Thermal Conductivity	0.300 W/m-K	2.08 BTU-in/hr-ft <sup>Â</sup> 2-Â°F	DIN 52612
Maximum Service Temperature, Air	110 Â°C	230 Â°F	
	130 Â°C	266 Â°F	short term
Deflection Temperature at 1.8 MPa (264 psi)	200 Â°C	392 Â°F	

Thermal Properties Vicat Softening Point	Metric 220 Å°C	English 428 Å°F	Comments DIN ISO 309
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Electrical Properties	Metric	English	Comments
Surface Resistance	<= 1e+05	<= 1e+05	
Insulation Resistance	<= 100000 ohm	<= 100000 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	black	

## Contact Songhan Plastic Technology Co.,Ltd.

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