

## Lehmann & Voss LUVOCOM<sup>®</sup> 6-7595 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. High-strength and high-stiff parts; low coefficient of expansion. Especially suitable at dynamic stress situations. Electrically conductive, suitable for continuous discharging of statically generated electricity. High dimensionally 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-6-7595-Polyamide-12-with-carbon-fiber.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-6-7595-Polyamide-12-with-carbon-fiber.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.28 g/cc	1.28 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23 <sup>°</sup> C/24h
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	165 MPa	23900 psi	
Elongation at Yield	2.5 %	2.5 %	
	3.2 %	3.2 %	flexural
Modulus of Elasticity	23.0 GPa	3340 ksi	
Flexural Strength	235 MPa	34100 psi	
Flexural Modulus	20.0 GPa	2900 ksi	
Charpy Impact Unnotched	3.50 J/cm <sup>2</sup>	16.7 ft-lb/in <sup>2</sup>	flatwise; ISO 179 1fU
Charpy Impact, Notched	1.10 J/cm <sup>2</sup>	5.23 ft-lb/in <sup>2</sup>	ISO 179 1eA

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 $\mu\text{m/m}\cdot\text{C}^\circ$	16.7 $\mu\text{in/in}\cdot\text{F}^\circ$	DIN 53752
Thermal Conductivity	0.450 W/m-K	3.12 BTU-in/hr-ft <sup>2</sup> - $\text{F}^\circ$	DIN 52612
Maximum Service Temperature, Air	90.0 $\text{C}^\circ$	194 $\text{F}^\circ$	
	140 $\text{C}^\circ$	284 $\text{F}^\circ$	short term
Vicat Softening Point	170 $\text{C}^\circ$	338 $\text{F}^\circ$	DIN ISO 306

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 100 ohm	<= 100 ohm	
Insulation Resistance	<= 1000 ohm	<= 1000 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	167 Â°F	Dehumidifying dryer
	@Time 21600 - 36000 sec	@Time 6.00 - 10.0 hour	
	105 Â°C	221 Â°F	or
	@Time <=14400 sec	@Time <=4.00 hour	

Descriptive Properties	Value	Comments
Color	natural color (black)	

## Contact Songhan Plastic Technology Co.,Ltd.

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