

## Lehmann & Voss LUVOCOM<sup>®</sup> 1-7893/GY Polyamide 66, with carbon fiber, heat stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 10% 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. Reduced moment of inertia compared with metal parts. Electrically conductive, suitable for continuous discharging of statically generated electricity. High dimensionally stable precision parts with low warpage and narrow tolerance range. Gear parts for automotive appliances, control disks, cams, sliding elements. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lehmann-Voss-LUVOCOM-1-7893GY-Polyamide-66-with-carbon-fiber-heat-stabilized.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1-7893GY-Polyamide-66-with-carbon-fiber-heat-stabilized.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.42 g/cc	1.42 g/cc	ISO 1183
Water Absorption	<= 1.0 %	<= 1.0 %	23 <sup>°</sup> C/24h
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	245 MPa	35500 psi	
Elongation at Yield	1.6 %	1.6 %	
	2.1 %	2.1 %	flexural
Modulus of Elasticity	25.0 GPa	3630 ksi	
Flexural Strength	360 MPa	52200 psi	
Flexural Modulus	22.0 GPa	3190 ksi	
Charpy Impact Unnotched	4.80 J/cm <sup>2</sup>	22.8 ft-lb/in <sup>2</sup>	edgewise; ISO 179 1eU

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.20 W/m-K	8.33 BTU-in/hr-ft <sup>2</sup> - <sup>°</sup> F	HOT-DISK; 60x60x3 mm
Maximum Service Temperature, Air	120 <sup>°</sup> C	248 <sup>°</sup> F	
	160 <sup>°</sup> C	320 <sup>°</sup> F	short term
Deflection Temperature at 1.8 MPa (264 psi)	250 <sup>°</sup> C	482 <sup>°</sup> F	
Vicat Softening Point	260 <sup>°</sup> C	500 <sup>°</sup> F	DIN ISO 306

Flammability, UL 94 Thermal Properties	HB Metric	HB English	not recognized by UL Comments
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Electrical Properties	Metric	English	Comments
Surface Resistance	100 ohm	100 ohm	
Insulation Resistance	1000 ohm	1000 ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	290 Â°C	554 Â°F	mass temp
Nozzle Temperature	280 - 300 Â°C	536 - 572 Â°F	
Zone 1	290 - 310 Â°C	554 - 590 Â°F	
Zone 2	290 - 310 Â°C	554 - 590 Â°F	
Zone 3	290 - 310 Â°C	554 - 590 Â°F	
Mold Temperature	90.0 - 120 Â°C	194 - 248 Â°F	
Drying Temperature	75.0 Â°C @Time 21600 - 57600 sec	167 Â°F @Time 6.00 - 16.0 hour	Dehumidifying dryer
	105 Â°C @Time 14400 - 21600 sec	221 Â°F @Time 4.00 - 6.00 hour	Vacuum Dryer

Descriptive Properties	Value	Comments
Color	dust grey	

## Contact Songhan Plastic Technology Co.,Ltd.

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