

# Lehmann & Voss LUVOCOM® 1-7805 Polyamide 66, with glass fiber, aramid reinforcement and PTFE (Unverified Data\*\*)

Categories: [Polymer](#); [Thermoplastic](#); [Nylon](#); [Nylon 66](#); [Nylon 66, Glass Fiber/PTFE Filled](#)

**Material Notes:** Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering.

Improved friction and wear behaviour. Emergency running property.

Heat stabilised.

High dimensionally stable precision parts with low warpage and narrow tolerance range.

Bearings, sleeves, sliding elements, control disks, gear wheels, duty parts in switches.

Information provided by Lehmann & Voss & Co.KG


**Vendors:** No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Specific Gravity	1.49 g/cc	1.49 g/cc	ISO 1183
Water Absorption	<= 1.0 %	<= 1.0 %	23°C/24h
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	175 MPa	25400 psi	
Elongation at Yield	3.2 %	3.2 %	
Modulus of Elasticity	9.00 GPa	1310 ksi	
Flexural Strength	250 MPa	36300 psi	
Flexural Modulus	8.00 GPa	1160 ksi	
Flexural Strain at Yield	4.0 %	4.0 %	
Charpy Impact Unnotched	6.20 J/cm²	29.5 ft-lb/in²	edgewise; ISO 179 1eU
Charpy Impact, Notched	1.50 J/cm²	7.14 ft-lb/in²	ISO 179 1eA

Electrical Properties	Metric	English	Comments
Surface Resistance	>= 1.00e+12 ohm	>= 1.00e+12 ohm	
Insulation Resistance	>= 1.00e+12 ohm	>= 1.00e+12 ohm	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	120 °C	248 °F	
	160 °C	320 °F	short term
Vicat Softening Point	250 °C	482 °F	DIN ISO 306

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

## Descriptive Properties

Color: natural color (beige)

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