

## Lehmann & Voss LUVOCOM<sup>®</sup> 1-7830 Polyamide 66, with PTFE, lubricant modified, improved wear resistance, high viscosity

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, PTFE Filled

### Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Improved friction and wear behaviour. Emergency running property. Isotropic shrinkage characteristics. Bearings, sleeves, sliding elements, control disks, gear wheels, duty parts in switches. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lehmann-Voss-LUVOCOM-1-7830-Polyamide-66-with-PTFE-lubricant-modified-improved-wear-resistance-high-viscosity.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1-7830-Polyamide-66-with-PTFE-lubricant-modified-improved-wear-resistance-high-viscosity.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ISO 1183
Water Absorption	<= 1.0 %	<= 1.0 %	23Â°C/24h
Linear Mold Shrinkage	0.015 - 0.020 cm/cm	0.015 - 0.020 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	75.0 MPa	10900 psi	
Elongation at Yield	4.5 %	4.5 %	
	5.5 %	5.5 %	flexural
Modulus of Elasticity	3.00 GPa	435 ksi	
Flexural Strength	110 MPa	16000 psi	
Flexural Modulus	3.00 GPa	435 ksi	
Charpy Impact Unnotched	9.50 J/cm <sup>2</sup>	45.2 ft-lb/in <sup>2</sup>	edgewise; ISO 179 1eU
Charpy Impact, Notched	0.500 J/cm <sup>2</sup>	2.38 ft-lb/in <sup>2</sup>	ISO 179 1eA
Coefficient of Friction, Dynamic	0.080	0.080	
Coefficient of Friction, Static	0.070	0.070	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.300 W/m-K	2.08 BTU-in/hr-ft <sup>2</sup> - Â°F	DIN 52612
Maximum Service Temperature, Air	110 Â°C	230 Â°F	
	160 Â°C	320 Â°F	short term

Electrical Properties	Metric	English	Comments
Surface Resistance	$\geq 1.00 \times 10^{12}$ ohm	$\geq 1.00 \times 10^{12}$ ohm	
Insulation Resistance	$\geq 1.00 \times 10^{12}$ ohm	$\geq 1.00 \times 10^{12}$ 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	signal black	

## Contact Songhan Plastic Technology Co.,Ltd.

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