

## Lehmann & Voss LUVOCOM<sup>®</sup> 1100-7939/GY Polyether sulfone, unreinforced

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

### Material Notes:

Applications: Apparatus- and precision engineering, film- and photo industry, sporting- and leisure goods, medical- and electrical engineering, aircraft- and aerospace industry.High dimensionally stable precision parts, even at elevated temperatures and narrow tolerance range.Superheated steam sterilizable.Inherent flame resistance.High quality terminal bar, switches and plugs, relais, lamp reflectors, sterilizable medical equipment.Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lehmann-Voss-LUVOCOM-1100-7939GY-Polyether-sulfone-unreinforced.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1100-7939GY-Polyether-sulfone-unreinforced.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23 <sup>°</sup> C/24h
Linear Mold Shrinkage	0.0050 - 0.010 cm/cm	0.0050 - 0.010 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	90.0 MPa	13100 psi	
Elongation at Yield	6.0 %	6.0 %	
	7.5 %	7.5 %	flexural
Modulus of Elasticity	3.00 GPa	435 ksi	
Flexural Strength	135 MPa	19600 psi	
Flexural Modulus	2.00 GPa	290 ksi	
Charpy Impact Unnotched	9.50 J/cm <sup>2</sup>	45.2 ft-lb/in <sup>2</sup>	flatwise; ISO 179 1fU
Charpy Impact, Notched	0.600 J/cm <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	ISO 179 1eA

Thermal Properties	Metric	English	Comments
CTE, linear	55.0 $\mu$ m/m- <sup>°</sup> C	30.6 $\mu$ in/in- <sup>°</sup> F	DIN 53752
Thermal Conductivity	0.200 W/m-K	1.39 BTU-in/hr-ft <sup>2</sup> - <sup>°</sup> F	DIN 52612
Maximum Service Temperature, Air	180 <sup>°</sup> C	356 <sup>°</sup> F	
	220 <sup>°</sup> C	428 <sup>°</sup> F	short term
Deflection Temperature at 1.8 MPa (264 psi)	195 <sup>°</sup> C	383 <sup>°</sup> F	

Heat Softening Point Thermal Properties	215 Å°C Metric	419 Å°F English	RoHS ISO 305 Comments
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Electrical Properties	Metric	English	Comments
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Insulation Resistance	>= 1.00e+12 ohm	>= 1.00e+12 ohm	
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Processing Properties	Metric	English	Comments
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Processing Temperature	350 Å°C	662 Å°F	mass temp
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Nozzle Temperature	340 - 360 Å°C	644 - 680 Å°F	
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Zone 1	355 - 375 Å°C	671 - 707 Å°F	
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Zone 2	360 - 380 Å°C	680 - 716 Å°F	
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Zone 3	350 - 370 Å°C	662 - 698 Å°F	
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Mold Temperature	120 - 200 Å°C	248 - 392 Å°F	
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Drying Temperature	150 Å°C @Time 10800 - 18000 sec	302 Å°F @Time 3.00 - 5.00 hour	Dehumidifying dryer
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Descriptive Properties	Value	Comments
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Color	light grey	
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## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China