

## Lehmann & Voss LUVOCOM<sup>®</sup> 80/TF/18/NT Polyacetal-copolymer, with PTFE

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, PTFE Filled

### Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Improved friction and wear behaviour. Emergency running property. Emergency running property, glide mating with low sliding friction. Bearings, sleeves, control disks, gear wheels, cams. No mass temperature above 215<sup>°</sup>C! Ventilation of machinery is recommended. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lehmann-Voss-LUVOCOM-80TF18NT-Polyacetal-copolymer-with-PTFE.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-80TF18NT-Polyacetal-copolymer-with-PTFE.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.48 g/cc	1.48 g/cc	ISO 1183
Water Absorption	0.15 %	0.15 %	23 <sup>°</sup> C/24h
Linear Mold Shrinkage	0.016 - 0.022 cm/cm	0.016 - 0.022 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	46.0 MPa	6670 psi	
Elongation at Yield	10 %	10 %	
	12 %	12 %	flexural
Modulus of Elasticity	2.20 GPa	319 ksi	
Flexural Strength	65.0 MPa	9430 psi	
Flexural Modulus	1.80 GPa	261 ksi	
Charpy Impact Unnotched	5.60 J/cm <sup>2</sup>	26.6 ft-lb/in <sup>2</sup>	edgewise; ISO 179 1eU
	4.50 J/cm <sup>2</sup>	21.4 ft-lb/in <sup>2</sup>	ISO 179
	@Temperature -30.0 <sup>°</sup> C	@Temperature -22.0 <sup>°</sup> F	
Charpy Impact, Notched	0.800 J/cm <sup>2</sup>	3.81 ft-lb/in <sup>2</sup>	ISO 179 1eA
	0.600 J/cm <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	ISO 179 eA
	@Temperature -30.0 <sup>°</sup> C	@Temperature -22.0 <sup>°</sup> F	
Coefficient of Friction, Dynamic	0.15	0.15	
Coefficient of Friction, Static	0.080	0.080	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	100 Â°C	212 Â°F	
	120 Â°C	248 Â°F	short term
Deflection Temperature at 1.8 MPa (264 psi)	85.0 Â°C	185 Â°F	
Vicat Softening Point	145 Â°C	293 Â°F	DIN ISO 306

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

Processing Properties	Metric	English	Comments
Processing Temperature	200 Â°C	392 Â°F	mass temp
Nozzle Temperature	175 - 200 Â°C	347 - 392 Â°F	
Zone 1	175 - 190 Â°C	347 - 374 Â°F	
Zone 2	185 - 205 Â°C	365 - 401 Â°F	
Zone 3	180 - 200 Â°C	356 - 392 Â°F	
Mold Temperature	80.0 - 120 Â°C	176 - 248 Â°F	
Drying Temperature	75.0 Â°C	167 Â°F	Dehumidifying dryer
	@Time 7200 - 28800 sec	@Time 2.00 - 8.00 hour	
	120 Â°C	248 Â°F	Air-Circulation Dryer
	@Time 7200 - 14400 sec	@Time 2.00 - 4.00 hour	

Descriptive Properties	Value	Comments
Color	natural color	

## Contact Songhan Plastic Technology Co.,Ltd.

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