

Lehmann & Voss LUVOCOM[®] 80/TF/18/SI/2 Polyacetal-copolymer, with PTFE, lubricant modified

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[°]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-80TF18SI2-Polyacetal-copolymer-with-PTFE-lubricant-modified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.49 g/cc	1.49 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23 [°] C/24h
Linear Mold Shrinkage	0.018 - 0.025 cm/cm	0.018 - 0.025 in/in	
Melt Flow	11 g/10 min @Load 2.16 kg, Temperature 190 [°] C	11 g/10 min @Load 4.76 lb, Temperature 374 [°] F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	45.0 MPa	6530 psi	
Elongation at Yield	20 %	20 %	
	25 %	25 %	flexural
Modulus of Elasticity	2.00 GPa	290 ksi	
Flexural Strength	60.0 MPa	8700 psi	
Flexural Modulus	1.80 GPa	261 ksi	
Charpy Impact Unnotched	6.00 J/cm ²	28.6 ft-lb/in ²	flatwise; ISO 179 1fU
	5.00 J/cm ² @Temperature -30.0 [°] C	23.8 ft-lb/in ² @Temperature -22.0 [°] F	ISO 179
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	ISO 179 1eA
	1.10 J/cm ² @Temperature -30.0 [°] C	5.23 ft-lb/in ² @Temperature -22.0 [°] F	ISO 179 eA

Mechanical Properties <small>Dynamic</small>	Metric	English	Comments
Coefficient of Friction, Static	0.060	0.060	

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	50.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	DIN 53752
Thermal Conductivity	0.200 W/m-K	1.39 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	DIN 52612
Maximum Service Temperature, Air	100 $\text{Å}^\circ\text{C}$	212 $\text{Å}^\circ\text{F}$	
	120 $\text{Å}^\circ\text{C}$	248 $\text{Å}^\circ\text{F}$	short term
Deflection Temperature at 1.8 MPa (264 psi)	95.0 $\text{Å}^\circ\text{C}$	203 $\text{Å}^\circ\text{F}$	
Vicat Softening Point	160 $\text{Å}^\circ\text{C}$	320 $\text{Å}^\circ\text{F}$	DIN ISO 306

Electrical Properties	Metric	English	Comments
Insulation Resistance	$\geq 1.00\text{e}+12$ ohm	$\geq 1.00\text{e}+12$ ohm	

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

Descriptive Properties	Value	Comments
Color	natural color (white)	

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