

Lehmann & Voss LUVOCOM® 80-7014 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. High dimensionally stable precision parts. Bearings, sleeves, high precision gear wheels, control disks, rollers, coil formers. 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-80-7014-Polyacetal-copolymer-with-PTFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.47 g/cc	1.47 g/cc	ISO 1183
Water Absorption	0.15 %	0.15 %	23°C/24h
Linear Mold Shrinkage	0.017 - 0.025 cm/cm	0.017 - 0.025 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	50.0 MPa	7250 psi	
Elongation at Yield	10 %	10 %	
	12 %	12 %	flexural
Modulus of Elasticity	2.50 GPa	363 ksi	
Flexural Strength	70.0 MPa	10200 psi	
Flexural Modulus	2.00 GPa	290 ksi	
Charpy Impact Unnotched	6.50 J/cm ²	30.9 ft-lb/in ²	flatwise; ISO 179 1fU
Coefficient of Friction, Dynamic	0.16	0.16	
Coefficient of Friction, Static	0.080	0.080	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	100 °C	212 °F	
	120 °C	248 °F	short term
Vicat Softening Point	145 °C	293 °F	DIN ISO 306
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Insulation Resistance	$\geq 1.00 \times 10^{12}$ ohm	$\geq 1.00 \times 10^{12}$ 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 (white)	

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