

Lehmann & Voss LUVOCOM® 80-7919 Polyacetal-copolymer, with PTFE, easy flowing

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-80-7919-Polyacetal-copolymer-with-PTFE-easy-flowing.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.49 g/cc	1.49 g/cc	ISO 1183
Water Absorption	0.15 %	0.15 %	23°C/24h
Linear Mold Shrinkage	0.018 - 0.026 cm/cm	0.018 - 0.026 in/in	
Melt Flow	49.17 g/10 min @Load 2.16 kg, Temperature 190 °C	49.17 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	7.5 %	7.5 %	
	10 %	10 %	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	3.60 J/cm ²	17.1 ft-lb/in ²	edgewise; ISO 179 1eU
	3.40 J/cm ² @Temperature -30.0 °C	16.2 ft-lb/in ² @Temperature -22.0 °F	ISO 179
Charpy Impact, Notched	0.300 J/cm ²	1.43 ft-lb/in ²	ISO 179 1eA
	0.250 J/cm ² @Temperature -30.0 °C	1.19 ft-lb/in ² @Temperature -22.0 °F	ISO 179 eA

Mechanical Properties	Metric	English	Comments
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
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 @Time 7200 - 28800 sec	167 Â°F @Time 2.00 - 8.00 hour	Dehumidifying dryer
	120 Â°C @Time 7200 - 14400 sec	248 Â°F @Time 2.00 - 4.00 hour	Air-Circulation Dryer

Descriptive Properties	Value	Comments
Color	natural color (white)	

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