

Lehmann & Voss LUVOCOM® 80-0837-1 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. 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-80-0837-1-Polyacetal-copolymer-with-PTFE-lubricant-modified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.43 g/cc	1.43 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23°C/24h
Linear Mold Shrinkage	0.018 - 0.030 cm/cm	0.018 - 0.030 in/in	
Melt Flow	24.31 g/10 min @Load 2.16 kg, Temperature 250 °C	24.31 g/10 min @Load 4.76 lb, Temperature 482 °F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	44.0 MPa	6380 psi	
Elongation at Yield	16.5 %	16.5 %	
	21 %	21 %	flexural
Modulus of Elasticity	2.30 GPa	334 ksi	
Flexural Strength	65.0 MPa	9430 psi	
Flexural Modulus	2.00 GPa	290 ksi	
Charpy Impact Unnotched	8.30 J/cm ²	39.5 ft-lb/in ²	flatwise; ISO 179 1fU
	8.00 J/cm ² @Temperature -30.0 °C	38.1 ft-lb/in ² @Temperature -22.0 °F	ISO 179
Charpy Impact, Notched	0.700 J/cm ²	3.33 ft-lb/in ²	ISO 179 1eA
Coefficient of Friction, Dynamic	0.15	0.15	
Coefficient of Friction, Static	0.080	0.080	

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 $\mu\text{m/m-}^{\circ}\text{C}$	50.0 $\mu\text{in/in-}^{\circ}\text{F}$	DIN 53752
Maximum Service Temperature, Air	100 $^{\circ}\text{C}$	212 $^{\circ}\text{F}$	
	120 $^{\circ}\text{C}$	248 $^{\circ}\text{F}$	short term
Deflection Temperature at 1.8 MPa (264 psi)	105 $^{\circ}\text{C}$	221 $^{\circ}\text{F}$	
Vicat Softening Point	155 $^{\circ}\text{C}$	311 $^{\circ}\text{F}$	DIN ISO 306
Flammability, UL94	HB	HB	not recognized by UL

Electrical Properties	Metric	English	Comments
Surface Resistance	$\geq 1.00\text{e}+13$ ohm	$\geq 1.00\text{e}+13$ ohm	
Insulation Resistance	$\geq 1.00\text{e}+12$ ohm	$\geq 1.00\text{e}+12$ ohm	

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

Descriptive Properties	Value	Comments
Color	natural color (white)	

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