

Lehmann & Voss LUVOCOM[®] 80-8387 Polyacetal-copolymer, unreinforced

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Unreinforced

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Isotropic shrinkage characteristics. Strong, stiff parts. Impact resistance. Control disks, cams, sliding elements and other duty parts. 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-80-8387-Polyacetal-copolymer-unreinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.84 g/cc	1.84 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	16.56 g/10 min @Load 2.16 kg, Temperature 190 [°] C	16.56 g/10 min @Load 4.76 lb, Temperature 374 [°] F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	54.0 MPa	7830 psi	
Elongation at Yield	4.5 %	4.5 %	
	5.5 %	5.5 %	flexural
Modulus of Elasticity	4.00 GPa	580 ksi	
Flexural Strength	79.0 MPa	11500 psi	
Flexural Modulus	3.50 GPa	508 ksi	
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	flatwise; ISO 179 1fU

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	100 [°] C	212 [°] F	
	120 [°] C	248 [°] F	short term
Flammability, UL94	HB	HB	not recognized by UL

Electrical Properties	Metric	English	Comments
Surface Resistance	>= 1.00e+11 ohm	>= 1.00e+11 ohm	

Electrical Properties	Metric	English	Comments
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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 (black)	

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