

Lehmann & Voss LUVOCOM[®] 80/CF/10/BK Polyacetal-copolymer, with carbon fiber

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Carbon Fiber Filled

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Strong, stiff parts. Electrically conductive, suitable for continuous discharging of statically generated electricity. No change of electric potential at bearings in case of separation of charge caused by transport and guiding of paper and foil. 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-80CF10BK-Polyacetal-copolymer-with-carbon-fiber.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	0.0030 - 0.0080 cm/cm	0.0030 - 0.0080 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	70.0 MPa	10200 psi	
Elongation at Yield	1.2 %	1.2 %	
	2.0 %	2.0 %	flexural
Modulus of Elasticity	8.00 GPa	1160 ksi	
Flexural Strength	105 MPa	15200 psi	
Flexural Modulus	7.00 GPa	1020 ksi	
Charpy Impact Unnotched	2.50 J/cm ²	11.9 ft-lb/in ²	flatwise; ISO 179 1fU
Coefficient of Friction, Dynamic	0.16	0.16	
Coefficient of Friction, Static	0.12	0.12	

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 μ m/m- [°] C	33.3 μ in/in- [°] F	DIN 53752
Thermal Conductivity	0.400 W/m-K	2.78 BTU-in/hr-ft ² - [°] F	DIN 52612
Maximum Service Temperature, Air	100 [°] C	212 [°] F	
	120 [°] C	248 [°] F	short term

Thermal Properties Vicat Softening Point	Metric 165 Å°C	English 329 Å°F	Comments DIN ISO 306
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Electrical Properties	Metric	English	Comments
Surface Resistance	<= 1000 ohm	<= 1000 ohm	
Insulation Resistance	<= 1000 ohm	<= 1000 ohm	

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

Descriptive Properties	Value	Comments
Color	black	

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