

Lehmann & Voss LUVOCOM® 80/CF/12/TF/10/BK Polyacetal-copolymer, with carbon fiber and PTFE

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

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Electrically conductive, suitable for continuous discharging of statically generated electricity. Improved friction and wear behaviour. Emergency running property. 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-80CF12TF10BK-Polyacetal-copolymer-with-carbon-fiber-and-PTFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23°C/24h
Linear Mold Shrinkage	0.0030 - 0.0070 cm/cm	0.0030 - 0.0070 in/in	
Melt Flow	18 g/10 min @Load 5.00 kg, Temperature 190 °C	18 g/10 min @Load 11.0 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	95.0 MPa	13800 psi	
Elongation at Yield	1.1 %	1.1 %	
	1.5 %	1.5 %	flexural
Modulus of Elasticity	11.0 GPa	1600 ksi	
Flexural Strength	135 MPa	19600 psi	
Flexural Modulus	8.50 GPa	1230 ksi	
Charpy Impact Unnotched	1.80 J/cm ²	8.57 ft-lb/in ²	edgewise; ISO 179 1eU
Coefficient of Friction, Dynamic	0.15	0.15	
Coefficient of Friction, Static	0.11	0.11	

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 µm/m-°C	33.3 µin/in-°F	DIN 53752

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	100 Â°C	212 Â°F	
	120 Â°C	248 Â°F	short term
Deflection Temperature at 1.8 MPa (264 psi)	130 Â°C	266 Â°F	
Vicat Softening Point	160 Â°C	320 Â°F	DIN ISO 306
Flammability, UL94	HB	HB	

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 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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