

Lehmann & Voss LUVOCOM® 80-7626 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. 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. Transporting equipment for electrically sensible goods. 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-80-7626-Polyacetal-copolymer-with-carbon-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.44 g/cc	1.44 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23°C/24h
Linear Mold Shrinkage	0.0090 - 0.014 cm/cm	0.0090 - 0.014 in/in	
Melt Flow	19 g/10 min @Load 2.16 kg, Temperature 190 °C	19 g/10 min @Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	85.0 MPa	12300 psi	
Elongation at Yield	3.0 %	3.0 %	
	4.3 %	4.3 %	flexural
Modulus of Elasticity	7.00 GPa	1020 ksi	
Flexural Strength	115 MPa	16700 psi	
Flexural Modulus	6.00 GPa	870 ksi	
Charpy Impact Unnotched	3.30 J/cm²	15.7 ft-lb/in²	flatwise; ISO 179 1fU

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 µm/m-°C	33.3 µin/in-°F	DIN 53752
Thermal Conductivity	0.600 W/m-K	4.16 BTU-in/hr-ft²-°F	HOT-DISK 60x60x3 mm
Maximum Service Temperature, Air	100 °C	212 °F	

Thermal Properties	120 Â°C Metric	248 Â°F English	short term Comments
Flammability, UL94	HB	HB	not recognized by UL

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 1.00e+6 ohm	<= 1.00e+6 ohm	
Insulation Resistance	<= 1.00e+7 ohm	<= 1.00e+7 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	167 Â°F	Dehumidifying dryer
	@Time 7200 - 28800 sec	@Time 2.00 - 8.00 hour	
	120 Â°C	248 Â°F	Air-Circulation Dryer
	@Time 7200 - 14400 sec	@Time 2.00 - 4.00 hour	

Descriptive Properties	Value	Comments
Color	natural color (black)	

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