

Lehmann & Voss LUVOCOM[®] 80-7727 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; low thermal coefficient of expansion. Electrically conductive, suitable for continuous discharging of statically generated electricity. High dimensionally stable precision parts. Transporting equipment for electrically sensible goods. No change of electric potential at bearings in case of separation of charge caused by transport and guiding of paper and foil. 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-80-7727-Polyacetal-copolymer-with-carbon-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.46 g/cc	1.46 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23 [°] C/24h
Linear Mold Shrinkage	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	130 MPa	18900 psi	
Elongation at Yield	1.3 %	1.3 %	
	1.8 %	1.8 %	flexural
Modulus of Elasticity	19.0 GPa	2760 ksi	
Flexural Strength	185 MPa	26800 psi	
Flexural Modulus	16.0 GPa	2320 ksi	
Charpy Impact Unnotched	3.00 J/cm ²	14.3 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
Maximum Service Temperature, Air	100 [°] C	212 [°] F	
	120 [°] C	248 [°] F	short term
Vicat Softening Point	160 [°] C	320 [°] F	DIN ISO 306

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 100 ohm	<= 100 ohm	
Insulation Resistance	<= 100 ohm	<= 100 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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