

Lehmann & Voss LUVOCOM[®] 80-7112/BK Polyacetal-copolymer, with glass fiber and carbon fiber

Category : Polymer , Thermoplastic , Acetal (POM)

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. High dimensionally stable precision parts. 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-80-7112BK-Polyacetal-copolymer-with-glass-fiber-and-carbon-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.54 g/cc	1.54 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23 [°] C/24h
Linear Mold Shrinkage	0.0030 - 0.070 cm/cm	0.0030 - 0.070 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	85.0 MPa	12300 psi	
Elongation at Yield	1.0 %	1.0 %	
	1.5 %	1.5 %	flexural
Modulus of Elasticity	13.0 GPa	1890 ksi	
Flexural Strength	120 MPa	17400 psi	
Flexural Modulus	10.0 GPa	1450 ksi	
Charpy Impact Unnotched	1.50 J/cm ²	7.14 ft-lb/in ²	flatwise; ISO 179 1fU
Coefficient of Friction, Dynamic	0.18	0.18	
Coefficient of Friction, Static	0.15	0.15	

Thermal Properties	Metric	English	Comments
CTE, linear	20.0 μ m/m- [°] C	11.1 μ in/in- [°] F	DIN 53752
Thermal Conductivity	0.300 W/m-K	2.08 BTU-in/hr-ft ² - [°] F	DIN 52612
Maximum Service Temperature, Air	100 [°] C	212 [°] F	

Thermal Properties	120 Â°C Metric	248 Â°F English	short term Comments
Deflection Temperature at 1.8 MPa (264 psi)	170 Â°C	338 Â°F	
Vicat Softening Point	160 Â°C	320 Â°F	DIN ISO 306
Flammability, UL94	HB	HB	not recognized by UL

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 10000 ohm	<= 10000 ohm	
Insulation Resistance	<= 10000 ohm	<= 10000 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	black	

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