

## Lehmann & Voss LUVOCOM<sup>®</sup> 80-8003 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<sup>°</sup>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-80-8003-Polyacetal-copolymer-with-carbon-fiber.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-80-8003-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 <sup>°</sup> C/24h
Linear Mold Shrinkage	0.0030 - 0.0080 cm/cm	0.0030 - 0.0080 in/in	
Melt Flow	2.86 g/10 min @Load 2.16 kg, Temperature 190 <sup>°</sup> C	2.86 g/10 min @Load 4.76 lb, Temperature 374 <sup>°</sup> F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	48.0 MPa	6960 psi	
Elongation at Yield	0.80 %	0.80 %	
	1.1 %	1.1 %	flexural
Modulus of Elasticity	9.50 GPa	1380 ksi	
Flexural Strength	65.0 MPa	9430 psi	
Flexural Modulus	8.00 GPa	1160 ksi	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	100 <sup>°</sup> C	212 <sup>°</sup> F	
	120 <sup>°</sup> C	248 <sup>°</sup> F	short term
Vicat Softening Point	165 <sup>°</sup> C	329 <sup>°</sup> F	DIN ISO 306

Electrical Properties	Metric	English	Comments
Surface Resistance			

Electrical Properties	$\leq 10$ ohm Metric	$\leq 10$ ohm English	Comments
Insulation Resistance	$\leq 10$ ohm	$\leq 10$ 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	

## Contact Songhan Plastic Technology Co.,Ltd.

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