

Lehmann & Voss LUVOCOM® 80-7705 Polyacetal-copolymer, with carbon fiber, aramid reinforcement 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. Improved friction and wear behaviour. Emergency running property. Suitable for discharging of statically generated electricity. Strong, stiff parts. Low warpage. 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-80-7705-Polyacetal-copolymer-with-carbon-fiber-aramid-reinforcement-and-PTFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.49 g/cc	1.49 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23°C/24h
Linear Mold Shrinkage	0.0050 - 0.010 cm/cm	0.0050 - 0.010 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	85.0 MPa	12300 psi	
Elongation at Yield	2.9 %	2.9 %	
	3.7 %	3.7 %	flexural
Modulus of Elasticity	8.00 GPa	1160 ksi	
Flexural Strength	120 MPa	17400 psi	
Flexural Modulus	7.00 GPa	1020 ksi	
Charpy Impact Unnotched	2.50 J/cm ²	11.9 ft-lb/in ²	edgewise; ISO 179 1eU

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	100 °C	212 °F	
	120 °C	248 °F	short term

Electrical Properties	Metric	English	Comments
Insulation Resistance	<= 1.00e+9 ohm	<= 1.00e+9 ohm	

Processing Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
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	dark grey	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China