

Lehmann & Voss LUVOCOM[®] 80-7580 Polyacetal-copolymer, with aramid reinforcement and PTFE

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Aramid Fiber Filled

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Improved friction and wear behaviour. Emergency running property. High dimensionally stable precision parts. 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-80-7580-Polyacetal-copolymer-with-aramid-reinforcement-and-PTFE.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	0.015 - 0.021 cm/cm	0.015 - 0.021 in/in	
Melt Flow	20.44 g/10 min @Load 5.00 kg, Temperature 190 [°] C	20.44 g/10 min @Load 11.0 lb, Temperature 374 [°] F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	45.0 MPa	6530 psi	
Elongation at Yield	5.1 %	5.1 %	
	6.4 %	6.4 %	flexural
Modulus of Elasticity	2.70 GPa	392 ksi	
Flexural Strength	65.0 MPa	9430 psi	
Flexural Modulus	2.00 GPa	290 ksi	
Charpy Impact Unnotched	3.20 J/cm ²	15.2 ft-lb/in ²	flatwise; ISO 179 1fU
Charpy Impact, Notched	0.280 J/cm ²	1.33 ft-lb/in ²	ISO 179 1eA

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+12 ohm	>= 1.00e+12 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 (yellow)	

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