

Lehmann & Voss LUVOCOM® 1700-7910 PPO, with carbon fiber

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO

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 with low warpage and narrow tolerance range.Control disks, cams, sliding elements and other duty parts.Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1700-7910-PPO-with-carbon-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 g/cc	ISO 1183
Water Absorption	<= 0.060 %	<= 0.060 %	23Â°C/24h
Linear Mold Shrinkage	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	
Melt Flow	17.36 g/10 min @Load 5.00 kg, Temperature 300 Â°C	17.36 g/10 min @Load 11.0 lb, Temperature 572 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	115 MPa	16700 psi	
Elongation at Yield	1.3 %	1.3 %	
	1.5 %	1.5 %	flexural
Modulus of Elasticity	14.0 GPa	2030 ksi	
Flexural Strength	160 MPa	23200 psi	
Flexural Modulus	12.0 GPa	1740 ksi	
Charpy Impact Unnotched	1.50 J/cmÂ²	7.14 ft-lb/inÂ²	flatwise; ISO 179 1fU

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	110 Â°C	230 Â°F	

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 1.00e+6 ohm	<= 1.00e+6 ohm	
Insulation Resistance	<= 1.00e+6 ohm	<= 1.00e+6 ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	280 Â°C	536 Â°F	mass temp
Nozzle Temperature	285 - 295 Â°C	545 - 563 Â°F	
Zone 1	270 - 280 Â°C	518 - 536 Â°F	
Zone 2	270 - 300 Â°C	518 - 572 Â°F	
Zone 3	290 - 305 Â°C	554 - 581 Â°F	
Mold Temperature	70.0 - 120 Â°C	158 - 248 Â°F	
Drying Temperature	95.0 - 110 Â°C @Time <=7200 sec	203 - 230 Â°F @Time <=2.00 hour	Dehumidifying dryer

Descriptive Properties	Value	Comments
Color	silver grey	

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