

Lehmann & Voss LUVOCOM® 1700-7859 PPO, with carbon fiber, glass fiber and PTFE

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polyphenylene Ether, PTFE Filled

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Strong, stiff parts; low thermal coefficient of expansion. Improved friction and wear behaviour. Emergency running property. 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-1700-7859-PPO-with-carbon-fiber-glass-fiber-and-PTFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	ISO 1183
Water Absorption	<= 0.060 %	<= 0.060 %	23Â°C/24h
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	115 MPa	16700 psi	
Elongation at Yield	1.5 %	1.5 %	
	2.0 %	2.0 %	flexural
Modulus of Elasticity	13.0 GPa	1890 ksi	
Flexural Strength	170 MPa	24700 psi	
Flexural Modulus	11.0 GPa	1600 ksi	
Charpy Impact Unnotched	2.00 J/cmÂ²	9.52 ft-lb/inÂ²	edgewise; ISO 179 1eU
Charpy Impact, Notched	0.600 J/cmÂ²	2.86 ft-lb/inÂ²	ISO 179 1eA

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	110 Â°C	230 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	120 Â°C	248 Â°F	
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments

Surface Resistance Electrical Properties	$\leq 1e+05$ Metric	$\leq 1e+05$ English	Comments
Insulation Resistance	$\leq 1.00e+6$ ohm	$\leq 1.00e+6$ 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	black	

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