

Lehmann & Voss LUVOCOM[®] 20-0665 Polyphthalamide, with carbon fiber, PTFE, lubricant modified

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), Carbon Fiber + PTFE Filled

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. High-strength and high-stiff parts; low coefficient of expansion. Low influence from moisture and temperature to measures and electrical properties, compared with PA66. Electrically conductive, suitable for continuous discharging of statically generated electricity. Improved friction and wear behaviour. Emergency running property. Bearings, sleeves, sliding elements, control disks, gear wheels, duty parts in switches. Information provided by Lehmann & Voss & Co. KG

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http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-20-0665-Polyphthalamide-with-carbon-fiber-PTFE-lubricant-modified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.38 g/cc	1.38 g/cc	ISO 1183
Water Absorption	<= 0.30 %	<= 0.30 %	23Â°C/24h
Linear Mold Shrinkage	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	210 MPa	30500 psi	
Elongation at Yield	2.0 %	2.0 %	
	2.8 %	2.8 %	flexural
Modulus of Elasticity	16.0 GPa	2320 ksi	
Flexural Strength	295 MPa	42800 psi	
Flexural Modulus	14.0 GPa	2030 ksi	
Charpy Impact Unnotched	4.30 J/cm ²	20.5 ft-lb/in ²	edgewise; ISO 179 1eU
	3.80 J/cm ²	18.1 ft-lb/in ²	ISO 179
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear	20.0 Âµm/m-Â°C	11.1 Âµin/in-Â°F	DIN 53752
Thermal Conductivity	0.360 W/m-K	2.50 BTU-in/hr-ft ² - Â°F	DIN 52612

Maximum Service Temperature, Air Thermal Properties	165 Å°C Metric	329 Å°F English	Comments
	195 Å°C	383 Å°F	short term
Deflection Temperature at 1.8 MPa (264 psi)	270 Å°C	518 Å°F	

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 10000 ohm	<= 10000 ohm	
Insulation Resistance	<= 100000 ohm	<= 100000 ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	330 Å°C	626 Å°F	mass temp
Nozzle Temperature	320 - 330 Å°C	608 - 626 Å°F	
Zone 1	320 - 340 Å°C	608 - 644 Å°F	
Zone 2	320 - 345 Å°C	608 - 653 Å°F	
Zone 3	325 - 350 Å°C	617 - 662 Å°F	
Mold Temperature	135 - 160 Å°C	275 - 320 Å°F	
Drying Temperature	80.0 Å°C @Time 57600 sec	176 Å°F @Time 16.0 hour	Dehumidifying dryer
	105 Å°C @Time 14400 - 18000 sec	221 Å°F @Time 4.00 - 5.00 hour	Vacuum Dryer

Descriptive Properties	Value	Comments
Color	natural color (black)	

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