

Lehmann & Voss LUVOCOM[®] 20-8254 Polyphthalamide, with carbon fiber and glass fiber

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

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Strong, stiff parts. Reduced moment of inertia compared with metal parts. Electrically conductive, suitable for continuous discharging of statically generated electricity. Bearings, sleeves, control disks, gear wheels, pump impellers, gear parts. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-20-8254-Polyphthalamide-with-carbon-fiber-and-glass-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ISO 1183
Water Absorption	<= 0.30 %	<= 0.30 %	23 [°] C/24h
Linear Mold Shrinkage	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	158 MPa	22900 psi	
Elongation at Yield	1.5 %	1.5 %	
	2.2 %	2.2 %	flexural
Modulus of Elasticity	13.0 GPa	1890 ksi	
Flexural Strength	230 MPa	33400 psi	
Flexural Modulus	11.0 GPa	1600 ksi	
Charpy Impact Unnotched	2.50 J/cm ²	11.9 ft-lb/in ²	edgewise; ISO 179 1eU
	2.10 J/cm ²	9.99 ft-lb/in ²	ISO 179
	@Temperature -30.0 [°] C	@Temperature -22.0 [°] F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	165 [°] C	329 [°] F	
	195 [°] C	383 [°] F	short term

Electrical Properties	Metric	English	Comments
Surface Resistance	>= 1.00e+8 ohm	>= 1.00e+8 ohm	

Insulation Resistance Electrical Properties	$\geq 1.00e+8$ ohm Metric	$\geq 1.00e+8$ ohm English	Comments
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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	black	

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