

Lehmann & Voss LUVOCOM® 1-8218 Polyamide 66, with carbon fiber, toughness-modified

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 10% Carbon Fiber Filled

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Strong, stiff parts; impact resistance. Reduced moment of inertia compared with metal parts. Electrically conductive, suitable for continuous discharging of statically generated electricity. Low warpage. Gear parts for automotive appliances, control disks, cams, sliding elements. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1-8218-Polyamide-66-with-carbon-fiber-toughness-modified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	ISO 1183
Water Absorption	<= 1.0 %	<= 1.0 %	23Â°C/24h
Linear Mold Shrinkage	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	95.0 MPa	13800 psi	
Elongation at Yield	8.5 %	8.5 %	
	11 %	11 %	flexural
Modulus of Elasticity	6.00 GPa	870 ksi	
Flexural Strength	135 MPa	19600 psi	
Flexural Modulus	5.00 GPa	725 ksi	
Charpy Impact Unnotched	6.50 J/cmÂ²	30.9 ft-lb/inÂ²	edgewise; ISO 179 1eU
	5.00 J/cmÂ²	23.8 ft-lb/inÂ²	ISO 179
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Charpy Impact, Notched	0.800 J/cmÂ²	3.81 ft-lb/inÂ²	ISO 179 1eA

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	120 Â°C	248 Â°F	
	150 Â°C	302 Â°F	short term

Electrical Properties	Metric	English	Comments
Surface Resistance	$\geq 1.00 \times 10^8 \text{ ohm}$	$\geq 1.00 \times 10^8 \text{ ohm}$	
Insulation Resistance	$\geq 1.00 \times 10^8 \text{ ohm}$	$\geq 1.00 \times 10^8 \text{ ohm}$	

Processing Properties	Metric	English	Comments
Processing Temperature	290 Â°C	554 Â°F	mass temp
Nozzle Temperature	280 - 300 Â°C	536 - 572 Â°F	
Zone 1	290 - 310 Â°C	554 - 590 Â°F	
Zone 2	290 - 310 Â°C	554 - 590 Â°F	
Zone 3	290 - 310 Â°C	554 - 590 Â°F	
Mold Temperature	90.0 - 120 Â°C	194 - 248 Â°F	
Drying Temperature	75.0 Â°C	167 Â°F	Dehumidifying dryer
	@Time 21600 - 57600 sec	@Time 6.00 - 16.0 hour	
	105 Â°C	221 Â°F	Vacuum Dryer
	@Time 14400 - 21600 sec	@Time 4.00 - 6.00 hour	

Descriptive Properties	Value	Comments
Color	natural color (black)	

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