

Lehmann & Voss LUVOCOM[®] 1-8181 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-1-8181-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 %	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	110 MPa	16000 psi	
Elongation at Yield	5.2 %	5.2 %	
	6.8 %	6.8 %	flexural
Modulus of Elasticity	8.00 GPa	1160 ksi	
Flexural Strength	160 MPa	23200 psi	
Flexural Modulus	6.00 GPa	870 ksi	
Charpy Impact Unnotched	6.30 J/cm ²	30.0 ft-lb/in ²	edgewise; ISO 179 1eU
	5.00 J/cm ²	23.8 ft-lb/in ²	ISO 179
	@Temperature -30.0 [°] C	@Temperature -22.0 [°] F	
Charpy Impact, Notched	0.700 J/cm ²	3.33 ft-lb/in ²	ISO 179 1eA

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

Electrical Properties	Metric	English	Comments
Surface Resistance	$\geq 1.00e+8$ ohm	$\geq 1.00e+8$ ohm	
Insulation Resistance	$\geq 1.00e+8$ ohm	$\geq 1.00e+8$ 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 @Time 21600 - 57600 sec	167 Â°F @Time 6.00 - 16.0 hour	Dehumidifying dryer
	105 Â°C @Time 14400 - 21600 sec	221 Â°F @Time 4.00 - 6.00 hour	Vacuum Dryer

Descriptive Properties	Value	Comments
Color	natural color (black)	

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