Lehmann & Voss LUVOCOMÂ® 1-RG 2 Polyamide 66, with carbon fiber, heat stabilized

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.Reduced moment of inertia compared with metal parts.Electrically conductive, suitable for continuous discharging of statically generated electricity.High dimensionally stable precision parts with low warpage and narrow tolerance range.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-RG-2-Polyamide-66-with-carbon-fiber-heat-stabilized.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ISO 1183
Water Absorption	<= 1.0 %	<= 1.0 %	23Â°C/24h
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	265 MPa	38400 psi	
Elongation at Yield	2.0 %	2.0 %	
	2.5 %	2.5 %	flexural
Modulus of Elasticity	24.0 GPa	3480 ksi	
Flexural Strength	370 MPa	53700 psi	
Flexural Modulus	19.0 GPa	2760 ksi	
Charpy Impact Unnotched	4.50 J/cmÂ²	21.4 ft-lb/inÂ²	flatwise; ISO 179 1fU
	4.00 J/cmÂ² @Temperature -30.0 Â°C	19.0 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179
Charpy Impact, Notched	1.30 J/cmÂ²	6.19 ft-lb/inÂ²	ISO 179 1eA
	1.10 J/cmÂ² @Temperature -30.0 Â°C	5.23 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179 eA
Coefficient of Friction, Dynamic	0.20	0.20	
Coefficient of Friction, Static	0.16	0.16	

Thermal Properties	Metric	English	Comments
CTE, linear	14.0 Âµm/m-Â°C	7.78 Âµin/in-Â°F	DIN 53752
Thermal Conductivity	0.510 W/m-K	3.54 BTU-in/hr-ftÂ²-Â°F	DIN 52612
Maximum Service Temperature, Air	100 Â°C	212 Â°F	
	160 Â°C	320 Â°F	short term
Deflection Temperature at 1.8 MPa (264 psi)	250 Â°C	482 Â°F	
Vicat Softening Point	260 Â°C	500 Â°F	DIN ISO 306
Flammability, UL94	HB	HB	not recognized by UL

Electrical Properties	Metric	English	Comments
Surface Resistance	100 ohm	100 ohm	
Insulation Resistance	1000 ohm	1000 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	black	

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