

Lehmann & Voss LUVOCOM[®] 1/CF/15/HS 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. High-strength and high-stiff parts; low coefficient of expansion. 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-1CF15HS-Polyamide-66-with-carbon-fiber-heat-stabilized.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ISO 1183
Water Absorption	<= 1.0 %	<= 1.0 %	23 [°] C/24h
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	
Melt Flow	9.44 g/10 min @Load 2.16 kg, Temperature 285 [°] C	9.44 g/10 min @Load 4.76 lb, Temperature 545 [°] F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	200 MPa	29000 psi	
Elongation at Yield	2.8 %	2.8 %	
	3.6 %	3.6 %	flexural
Modulus of Elasticity	12.0 GPa	1740 ksi	
Flexural Strength	300 MPa	43500 psi	
Flexural Modulus	10.0 GPa	1450 ksi	
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	edgewise; ISO 179 1eU
	3.00 J/cm ² @Temperature -30.0 [°] C	14.3 ft-lb/in ² @Temperature -22.0 [°] F	ISO 179
Charpy Impact, Notched	0.900 J/cm ²	4.28 ft-lb/in ²	ISO 179 1eA
	0.700 J/cm ² @Temperature -30.0 [°] C	3.33 ft-lb/in ² @Temperature -22.0 [°] F	ISO 179 eA

Mechanical Properties <i>Dynamic</i>	Metric	English	Comments
Coefficient of Friction, Static	0.18	0.18	

Thermal Properties	Metric	English	Comments
CTE, linear	27.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	15.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	DIN 53752
Thermal Conductivity	0.380 W/m-K	2.64 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	DIN 52612
Maximum Service Temperature, Air	120 $\text{Å}^\circ\text{C}$	248 $\text{Å}^\circ\text{F}$	
	160 $\text{Å}^\circ\text{C}$	320 $\text{Å}^\circ\text{F}$	short term
Deflection Temperature at 1.8 MPa (264 psi)	245 $\text{Å}^\circ\text{C}$	473 $\text{Å}^\circ\text{F}$	
Vicat Softening Point	250 $\text{Å}^\circ\text{C}$	482 $\text{Å}^\circ\text{F}$	DIN ISO 306
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Surface Resistance	≤ 1000 ohm	≤ 1000 ohm	
Insulation Resistance	≤ 1000 ohm	≤ 1000 ohm	

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

Descriptive Properties	Value	Comments
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Color Descriptive Properties	natural color (black) Value	Comments
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