

Lehmann & Voss LUVOCOM® 1-7003 Polyamide 66, with carbon fiber and PTFE, heat stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Carbon Fiber/PTFE Filled

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. High-strength and high-stiff parts; low coefficient of expansion. Electrically conductive, suitable for continuous discharging of statically generated electricity. Improved friction and wear behaviour. Emergency running property. 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-1-7003-Polyamide-66-with-carbon-fiber-and-PTFE-heat-stabilized.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 g/cc	ISO 1183
Water Absorption	<= 1.0 %	<= 1.0 %	23°C/24h
Linear Mold Shrinkage	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	205 MPa	29700 psi	
Elongation at Yield	2.4 %	2.4 %	
	3.6 %	3.6 %	flexural
Modulus of Elasticity	12.5 GPa	1810 ksi	
Flexural Strength	305 MPa	44200 psi	
Flexural Modulus	11.0 GPa	1600 ksi	
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	flatwise; ISO 179 1fU
	4.00 J/cm ²	19.0 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	ISO 179 1eA
	0.900 J/cm ²	4.28 ft-lb/in ²	ISO 179 eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Coefficient of Friction, Dynamic	0.19	0.19	
Coefficient of Friction, Static	0.16	0.16	

Thermal Properties	Metric	English	Comments
CTE, linear	25.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	13.9 $\mu\text{in}/\text{in}\cdot\text{°F}$	DIN 53752
Thermal Conductivity	0.390 W/m-K	2.71 BTU-in/hr-ft ² -°F	DIN 52612
Maximum Service Temperature, Air	120 °C	248 °F	
	160 °C	320 °F	short term
Deflection Temperature at 1.8 MPa (264 psi)	249 °C	480 °F	
Vicat Softening Point	250 °C	482 °F	DIN ISO 306

Electrical Properties	Metric	English	Comments
Surface Resistance	10000 ohm	10000 ohm	
Insulation Resistance	10000 ohm	10000 ohm	

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

Descriptive Properties	Value	Comments
Color	natural color (black)	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China