

Lehmann & Voss LUVOCOM® 1-7305/BK Polyamide 66, with carbon fiber and glass fiber, heat stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass/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. Improved friction and wear behaviour. Emergency running property. 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-1-7305BK-Polyamide-66-with-carbon-fiber-and-glass-fiber-heat-stabilized.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 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	225 MPa	32600 psi	
Elongation at Yield	2.0 %	2.0 %	
	2.5 %	2.5 %	flexural
Modulus of Elasticity	16.0 GPa	2320 ksi	
Flexural Strength	330 MPa	47900 psi	
Flexural Modulus	14.0 GPa	2030 ksi	
Charpy Impact Unnotched	5.00 J/cmÂ²	23.8 ft-lb/inÂ²	edgewise; ISO 179 1eU

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	120 Â°C	248 Â°F	
	160 Â°C	320 Â°F	short term

Electrical Properties	Metric	English	Comments
Surface Resistance	10 - 10000 ohm	10 - 10000 ohm	
Insulation Resistance	100 - 100000 ohm	100 - 100000 ohm	

Electrical Properties	Metric	English	Comments
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	black	

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