

Lehmann & Voss LUVOCOM[®] 1/AR/5/NT Polyamide 66, with aramid reinforcement

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Aramid Fiber Filled

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Improved wear behaviour, low warpage. Isotropic shrinkage characteristics. Control disks, cams, sliding elements and other duty parts. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1AR5NT-Polyamide-66-with-aramid-reinforcement.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ISO 1183
Water Absorption	<= 1.0 %	<= 1.0 %	23 [°] C/24h
Linear Mold Shrinkage	0.0070 - 0.013 cm/cm	0.0070 - 0.013 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	85.0 MPa	12300 psi	
Elongation at Yield	5.5 %	5.5 %	
	6.5 %	6.5 %	flexural
Modulus of Elasticity	3.50 GPa	508 ksi	
Flexural Strength	130 MPa	18900 psi	
Flexural Modulus	3.00 GPa	435 ksi	
Charpy Impact Unnotched	2.00 J/cm ²	9.52 ft-lb/in ²	flatwise; ISO 179 1fU

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	90.0 [°] C	194 [°] F	
	130 [°] C	266 [°] F	short term
Deflection Temperature at 1.8 MPa (264 psi)	70.0 [°] C	158 [°] F	

Electrical Properties	Metric	English	Comments
Surface Resistance	>= 1.00e+13 ohm	>= 1.00e+13 ohm	
Insulation Resistance	>= 1.00e+12 ohm	>= 1.00e+12 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 (yellow)	

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