

Lehmann & Voss LUVOCOM[®] 1-7032-B Polyamide 66, with aramid reinforcement and PTFE, lubricant modified, heat stabilized

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. Improved heat resistance. 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-1-7032-B-Polyamide-66-with-aramid-reinforcement-and-PTFE-lubricant-modified-heat-stabilized.php

| Physical Properties | Metric | English | Comments |
|-----------------------|----------------------|----------------------|-----------|
| Specific Gravity | 1.27 g/cc | 1.27 g/cc | ISO 1183 |
| Water Absorption | <= 1.0 % | <= 1.0 % | 23Â°C/24h |
| Linear Mold Shrinkage | 0.0060 - 0.013 cm/cm | 0.0060 - 0.013 in/in | |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|------------------------|----------------------------|-----------------------|
| Tensile Stress | 90.0 MPa | 13100 psi | |
| Elongation at Yield | 4.0 % | 4.0 % | |
| | 5.5 % | 5.5 % | flexural |
| Modulus of Elasticity | 4.50 GPa | 653 ksi | |
| Flexural Strength | 140 MPa | 20300 psi | |
| Flexural Modulus | 4.00 GPa | 580 ksi | |
| Charpy Impact Unnotched | 3.70 J/cm ² | 17.6 ft-lb/in ² | flatwise; ISO 179 1fU |

| Thermal Properties | Metric | English | Comments |
|---|---------|---------|------------|
| Maximum Service Temperature, Air | 120 Â°C | 248 Â°F | |
| | 160 Â°C | 320 Â°F | short term |
| Deflection Temperature at 1.8 MPa (264 psi) | 120 Â°C | 248 Â°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 | |

| 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 @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 | dark grey | |

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