

Lehmann & Voss LUVOCOM[®] 1-8357 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. Strong, stiff parts; impact resistance. Electrically conductive, suitable for continuous discharging of statically generated electricity. dynamic stress Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1-8357-Polyamide-66-with-carbon-fiber-and-glass-fiber-heat-stabilized.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-----------------------|-----------------------|-----------|
| Specific Gravity | 1.35 g/cc | 1.35 g/cc | ISO 1183 |
| Water Absorption | <= 1.0 % | <= 1.0 % | 23Â°C/24h |
| Linear Mold Shrinkage | 0.0020 - 0.0050 cm/cm | 0.0020 - 0.0050 in/in | |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|------------------------|----------------------------|-----------------------|
| Tensile Stress | 210 MPa | 30500 psi | |
| Elongation at Yield | 2.6 % | 2.6 % | |
| | 3.2 % | 3.2 % | flexural |
| Modulus of Elasticity | 14.0 GPa | 2030 ksi | |
| Flexural Strength | 300 MPa | 43500 psi | |
| Flexural Modulus | 12.0 GPa | 1740 ksi | |
| Charpy Impact Unnotched | 6.00 J/cm ² | 28.6 ft-lb/in ² | edgewise; ISO 179 1eU |
| Charpy Impact, Notched | 1.00 J/cm ² | 4.76 ft-lb/in ² | ISO 179 1eA |

| 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) | 245 Â°C | 473 Â°F | |
| Flammability, UL94 | HB | HB | not recognized by UL |

| Electrical Properties | Metric | English | Comments |
|-----------------------|------------|------------|----------|
| Surface Resistance | <= 100 ohm | <= 100 ohm | |
| Insulation Resistance | <= 100 ohm | <= 100 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 | graphite grey | |

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