

## Lehmann & Voss LUVOCOM® 3-8351 Polyamide 6, with carbon fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Carbon Fiber Filled

### Material Notes:

Applications: Automotive industry, textile machinery, apparatus- and precision engineering.Strong, stiff parts.Electrically conductive, suitable for continuous discharging of statically generated electricity.Low warpage.Parts for electric and electronic industry, antistatic body partsInformation provided by Lehmann & Voss & Co.KG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lehmann-Voss-LUVOCOM-3-8351-Polyamide-6-with-carbon-fiber.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-3-8351-Polyamide-6-with-carbon-fiber.php)

| Physical Properties   | Metric                | English               | Comments  |
|-----------------------|-----------------------|-----------------------|-----------|
| Specific Gravity      | 1.48 g/cc             | 1.48 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          | 145 MPa                   | 21000 psi                 |                       |
| Elongation at Yield     | 2.7 %                     | 2.7 %                     |                       |
|                         | 3.4 %                     | 3.4 %                     | flexural              |
| Modulus of Elasticity   | 13.0 GPa                  | 1890 ksi                  |                       |
| Flexural Strength       | 210 MPa                   | 30500 psi                 |                       |
| Flexural Modulus        | 11.0 GPa                  | 1600 ksi                  |                       |
| Charpy Impact Unnotched | 4.50 J/cmÂ²               | 21.4 ft-lb/inÂ²           | edgewise; ISO 179 1eU |
|                         | 4.00 J/cmÂ²               | 19.0 ft-lb/inÂ²           | ISO 179               |
|                         | @Temperature -30.0<br>Â°C | @Temperature -22.0<br>Â°F |                       |
| Charpy Impact, Notched  | 0.600 J/cmÂ²              | 2.86 ft-lb/inÂ²           | ISO 179 1eA           |
|                         | 0.500 J/cmÂ²              | 2.38 ft-lb/inÂ²           | ISO 179 eA            |
|                         | @Temperature -30.0<br>Â°C | @Temperature -22.0<br>Â°F |                       |

| Thermal Properties               | Metric   | English | Comments   |
|----------------------------------|----------|---------|------------|
| Maximum Service Temperature, Air | 90.0 Â°C | 194 Â°F |            |
|                                  | 130 Â°C  | 266 Â°F | short term |

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

| Processing Properties  | Metric                  | English                | Comments            |
|------------------------|-------------------------|------------------------|---------------------|
| Processing Temperature | 270 Â°C                 | 518 Â°F                | mass temp           |
| Nozzle Temperature     | 270 - 280 Â°C           | 518 - 536 Â°F          |                     |
| Zone 1                 | 250 - 270 Â°C           | 482 - 518 Â°F          |                     |
| Zone 2                 | 270 - 290 Â°C           | 518 - 554 Â°F          |                     |
| Zone 3                 | 280 - 300 Â°C           | 536 - 572 Â°F          |                     |
| Mold Temperature       | 70.0 - 110 Â°C          | 158 - 230 Â°F          |                     |
| Drying Temperature     | 75.0 Â°C                | 167 Â°F                | Dehumidifying dryer |
|                        | @Time 36000 - 57600 sec | @Time 10.0 - 16.0 hour |                     |
|                        | 105 Â°C                 | 221 Â°F                | or                  |
|                        | @Time 14400 - 21600 sec | @Time 4.00 - 6.00 hour |                     |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
| Color                  | black |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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