

## Lehmann & Voss LUVOCOM® 1100-8194 Polyether sulfone, with glass fiber

Category : Polymer , Thermoplastic , Polyethersulfone (PES) , Polyethersulfone (PES), 10%Glass Fiber Filled

### Material Notes:

Applications: Apparatus- and precision engineering, film- and photo industry, sporting- and leisure goods, medical- and electrical engineering, aircraft- and aerospace industry. High dimensionally stable precision parts, even at elevated temperatures and narrow tolerance range. Especially suitable for thin wall complex parts. Especially suitable for medical parts, superheated steam sterilizable, hydrolysis resistance. High quality terminal bar, switches and plugs, relais, lamp reflectors, sterilizable medical equipment. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lehmann-Voss-LUVOCOM-1100-8194-Polyether-sulfone-with-glass-fiber.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1100-8194-Polyether-sulfone-with-glass-fiber.php)

| Physical Properties   | Metric                | English               | Comments  |
|-----------------------|-----------------------|-----------------------|-----------|
| Specific Gravity      | 1.63 g/cc             | 1.63 g/cc             | ISO 1183  |
| Water Absorption      | <= 0.10 %             | <= 0.10 %             | 23Â°C/24h |
| Linear Mold Shrinkage | 0.0030 - 0.0050 cm/cm | 0.0030 - 0.0050 in/in |           |

| Mechanical Properties   | Metric      | English         | Comments              |
|-------------------------|-------------|-----------------|-----------------------|
| Tensile Stress          | 145 MPa     | 21000 psi       |                       |
| Elongation at Yield     | 2.0 %       | 2.0 %           |                       |
|                         | 2.5 %       | 2.5 %           | flexural              |
| Modulus of Elasticity   | 11.0 GPa    | 1600 ksi        |                       |
| Flexural Strength       | 210 MPa     | 30500 psi       |                       |
| Flexural Modulus        | 9.00 GPa    | 1310 ksi        |                       |
| Charpy Impact Unnotched | 4.50 J/cmÂ² | 21.4 ft-lb/inÂ² | flatwise; ISO 179 1fU |
| Charpy Impact, Notched  | 1.00 J/cmÂ² | 4.76 ft-lb/inÂ² | ISO 179 1eA           |

| Thermal Properties                | Metric         | English                 | Comments   |
|-----------------------------------|----------------|-------------------------|------------|
| CTE, linear                       | 31.0 Âµm/m-Â°C | 17.2 Âµin/in-Â°F        | DIN 53752  |
| Thermal Conductivity              | 0.330 W/m-K    | 2.29 BTU-in/hr-ftÂ²-Â°F | DIN 52612  |
| Maximum Service Temperature, Air  | 180 Â°C        | 356 Â°F                 |            |
|                                   | 200 Â°C        | 392 Â°F                 | short term |
| Deflection Temperature at 1.8 MPa |                |                         |            |

| (264 psi)<br>Thermal Properties | 210 Â°C<br>Metric | 410 Â°F<br>English | Comments    |
|---------------------------------|-------------------|--------------------|-------------|
| Vicat Softening Point           | 220 Â°C           | 428 Â°F            | DIN ISO 306 |

| Electrical Properties | Metric          | English         | Comments |
|-----------------------|-----------------|-----------------|----------|
| Insulation Resistance | >= 1.00e+12 ohm | >= 1.00e+12 ohm |          |

| Processing Properties  | Metric                                | English                           | Comments            |
|------------------------|---------------------------------------|-----------------------------------|---------------------|
| Processing Temperature | 350 Â°C                               | 662 Â°F                           | mass temp           |
| Nozzle Temperature     | 340 - 360 Â°C                         | 644 - 680 Â°F                     |                     |
| Zone 1                 | 355 - 375 Â°C                         | 671 - 707 Â°F                     |                     |
| Zone 2                 | 360 - 380 Â°C                         | 680 - 716 Â°F                     |                     |
| Zone 3                 | 350 - 370 Â°C                         | 662 - 698 Â°F                     |                     |
| Mold Temperature       | 120 - 200 Â°C                         | 248 - 392 Â°F                     |                     |
| Drying Temperature     | 150 Â°C<br>@Time 10800 - 18000<br>sec | 302 Â°F<br>@Time 3.00 - 5.00 hour | Dehumidifying dryer |

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

## Contact Songhan Plastic Technology Co.,Ltd.

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