

## Lehmann & Voss LUVOCOM® 20-7908 Polyphthalamide, with glass fiber and carbon fiber

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), Carbon Fiber Filled

### Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. High-strength and high-stiff parts; low coefficient of expansion. Electrically conductive, suitable for continuous discharging of statically generated electricity. Low influence from moisture and temperature to measures and electrical properties, compared with PA66. Suitable for metall inserts. Bearings, sleeves, sliding elements, control disks, gear wheels, duty parts in switches. Information provided by Lehmann & Voss & Co. KG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lehmann-Voss-LUVOCOM-20-7908-Polyphthalamide-with-glass-fiber-and-carbon-fiber.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-20-7908-Polyphthalamide-with-glass-fiber-and-carbon-fiber.php)

| Physical Properties   | Metric                | English               | Comments  |
|-----------------------|-----------------------|-----------------------|-----------|
| Specific Gravity      | 1.42 g/cc             | 1.42 g/cc             | ISO 1183  |
| Water Absorption      | <= 0.30 %             | <= 0.30 %             | 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          | 260 MPa                   | 37700 psi                 |                       |
| Elongation at Yield     | 2.0 %                     | 2.0 %                     |                       |
|                         | 2.5 %                     | 2.5 %                     | flexural              |
| Modulus of Elasticity   | 17.0 GPa                  | 2470 ksi                  |                       |
| Flexural Strength       | 360 MPa                   | 52200 psi                 |                       |
| Flexural Modulus        | 16.0 GPa                  | 2320 ksi                  |                       |
| Charpy Impact Unnotched | 6.00 J/cmÂ²               | 28.6 ft-lb/inÂ²           | edgewise; ISO 179 1eU |
|                         | 4.50 J/cmÂ²               | 21.4 ft-lb/inÂ²           | ISO 179               |
|                         | @Temperature -30.0<br>Â°C | @Temperature -22.0<br>Â°F |                       |

| Thermal Properties               | Metric  | English | Comments   |
|----------------------------------|---------|---------|------------|
| Maximum Service Temperature, Air | 165 Â°C | 329 Â°F |            |
|                                  | 195 Â°C | 383 Â°F | short term |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
| Surface Resistance    |        |         |          |

| Electrical Properties | <small>&lt;= 1e+05</small><br>Metric | <small>&lt;= 1e+05</small><br>English | Comments |
|-----------------------|--------------------------------------|---------------------------------------|----------|
| Insulation Resistance | <= 1.00e+6 ohm                       | <= 1.00e+6 ohm                        |          |

| Processing Properties  | Metric                  | English                | Comments            |
|------------------------|-------------------------|------------------------|---------------------|
| Processing Temperature | 330 Â°C                 | 626 Â°F                | mass temp           |
| Nozzle Temperature     | 320 - 330 Â°C           | 608 - 626 Â°F          |                     |
| Zone 1                 | 320 - 340 Â°C           | 608 - 644 Â°F          |                     |
| Zone 2                 | 320 - 345 Â°C           | 608 - 653 Â°F          |                     |
| Zone 3                 | 325 - 350 Â°C           | 617 - 662 Â°F          |                     |
| Mold Temperature       | 135 - 160 Â°C           | 275 - 320 Â°F          |                     |
| Drying Temperature     | 80.0 Â°C                | 176 Â°F                | Dehumidifying dryer |
|                        | @Time 57600 sec         | @Time 16.0 hour        |                     |
|                        | 105 Â°C                 | 221 Â°F                | Vacuum Dryer        |
|                        | @Time 14400 - 18000 sec | @Time 4.00 - 5.00 hour |                     |

| Descriptive Properties | Value                 | Comments |
|------------------------|-----------------------|----------|
| Color                  | natural color (black) |          |

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