

## Lehmann & Voss LUVOCOM® 20-7324 Polyphthalamide, with carbon fiber, PTFE, lubricant modified

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

### Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Strong, stiff parts. Dynamic stressed parts at high movement velocity. Improved friction and wear behaviour. Emergency running property. Bearings, sleeves, control disks, gear wheels, pump impellers, gear parts. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lehmann-Voss-LUVOCOM-20-7324-Polyphthalamide-with-carbon-fiber-PTFE-lubricant-modified.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-20-7324-Polyphthalamide-with-carbon-fiber-PTFE-lubricant-modified.php)

| Physical Properties   | Metric                | English               | Comments  |
|-----------------------|-----------------------|-----------------------|-----------|
| Specific Gravity      | 1.36 g/cc             | 1.36 g/cc             | ISO 1183  |
| Water Absorption      | <= 0.30 %             | <= 0.30 %             | 23Â°C/24h |
| Linear Mold Shrinkage | 0.0030 - 0.0070 cm/cm | 0.0030 - 0.0070 in/in |           |

| Mechanical Properties   | Metric       | English         | Comments              |
|-------------------------|--------------|-----------------|-----------------------|
| Tensile Stress          | 175 MPa      | 25400 psi       |                       |
| Elongation at Yield     | 1.8 %        | 1.8 %           |                       |
|                         | 2.3 %        | 2.3 %           | flexural              |
| Modulus of Elasticity   | 13.0 GPa     | 1890 ksi        |                       |
| Flexural Strength       | 250 MPa      | 36300 psi       |                       |
| Flexural Modulus        | 11.0 GPa     | 1600 ksi        |                       |
| Charpy Impact Unnotched | 3.20 J/cmÂ²  | 15.2 ft-lb/inÂ² | edgewise; ISO 179 1eU |
| Charpy Impact, Notched  | 0.700 J/cmÂ² | 3.33 ft-lb/inÂ² | ISO 179 1eA           |

| Thermal Properties                          | Metric  | English | Comments   |
|---------------------------------------------|---------|---------|------------|
| Maximum Service Temperature, Air            | 165 Â°C | 329 Â°F |            |
|                                             | 195 Â°C | 383 Â°F | short term |
| Deflection Temperature at 1.8 MPa (264 psi) | 245 Â°C | 473 Â°F |            |

| Electrical Properties | Metric         | English        | Comments |
|-----------------------|----------------|----------------|----------|
| Surface Resistance    | <= 1.00e+9 ohm | <= 1.00e+9 ohm |          |

| Electrical Properties | Metric                        | English                       | Comments |
|-----------------------|-------------------------------|-------------------------------|----------|
| Insulation Resistance | $1.0 \times 10^9 \text{ ohm}$ | $1.0 \times 10^9 \text{ ohm}$ |          |

| 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) |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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