

# Lehmann & Voss LUVOCOM® 19-7319 Polyamide 46, with carbon fiber and PTFE

Category : Polymer , Thermoplastic , Nylon , Nylon 46

## Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering.Strong, stiff parts.Reduced moment of inertia compared with metal parts.Electrically conductive, suitable for continuous discharging of statically generated electricity.Gear parts for automotive appliances, control disks, cams, sliding elements.Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lehmann-Voss-LUVOCOM-19-7319-Polyamide-46-with-carbon-fiber-and-PTFE.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-19-7319-Polyamide-46-with-carbon-fiber-and-PTFE.php)

| Physical Properties   | Metric                | English               | Comments  |
|-----------------------|-----------------------|-----------------------|-----------|
| Specific Gravity      | 1.30 g/cc             | 1.30 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                   | 230 MPa      | 33400 psi       |                       |
| Elongation at Yield              | 2.0 %        | 2.0 %           |                       |
|                                  | 2.5 %        | 2.5 %           | flexural              |
| Modulus of Elasticity            | 16.0 GPa     | 2320 ksi        |                       |
| Flexural Strength                | 320 MPa      | 46400 psi       |                       |
| Flexural Modulus                 | 14.0 GPa     | 2030 ksi        |                       |
| Charpy Impact Unnotched          | 5.00 J/cmÂ²  | 23.8 ft-lb/inÂ² | edgewise; ISO 179 1eU |
| Charpy Impact, Notched           | 0.700 J/cmÂ² | 3.33 ft-lb/inÂ² | ISO 179 1eA           |
| Coefficient of Friction, Dynamic | 0.21         | 0.21            |                       |
| Coefficient of Friction, Static  | 0.18         | 0.18            |                       |

| Thermal Properties               | Metric         | English                 | Comments  |
|----------------------------------|----------------|-------------------------|-----------|
| CTE, linear                      | 20.0 Âµm/m-Â°C | 11.1 Âµin/in-Â°F        | DIN 53752 |
| Thermal Conductivity             | 0.350 W/m-K    | 2.43 BTU-in/hr-ftÂ²-Â°F | DIN 52612 |
| Maximum Service Temperature, Air | 150 Â°C        | 302 Â°F                 |           |

| Thermal Properties                          | 160 Â°C<br>Metric | 320 Â°F<br>English | short term<br>Comments |
|---------------------------------------------|-------------------|--------------------|------------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | >= 290 Â°C        | >= 554 Â°F         |                        |
| Vicat Softening Point                       | 290 Â°C           | 554 Â°F            | DIN ISO 306            |

| Electrical Properties | Metric        | English       | Comments |
|-----------------------|---------------|---------------|----------|
| Surface Resistance    | <= 10000 ohm  | <= 10000 ohm  |          |
| Insulation Resistance | <= 100000 ohm | <= 100000 ohm |          |

| Processing Properties  | Metric                                | English                           | Comments            |
|------------------------|---------------------------------------|-----------------------------------|---------------------|
| Processing Temperature | 310 Â°C                               | 590 Â°F                           | mass temp           |
| Nozzle Temperature     | 280 - 330 Â°C                         | 536 - 626 Â°F                     |                     |
| Zone 1                 | 285 - 315 Â°C                         | 545 - 599 Â°F                     |                     |
| Zone 2                 | 305 - 315 Â°C                         | 581 - 599 Â°F                     |                     |
| Zone 3                 | 305 - 315 Â°C                         | 581 - 599 Â°F                     |                     |
| Mold Temperature       | 120 - 140 Â°C                         | 248 - 284 Â°F                     |                     |
| Drying Temperature     | 80.0 Â°C<br>@Time 7200 - 43200<br>sec | 176 Â°F<br>@Time 2.00 - 12.0 hour | Vacuum Dryer        |
|                        | 80.0 Â°C<br>@Time 7200 - 28800<br>sec | 176 Â°F<br>@Time 2.00 - 8.00 hour | Dehumidifying dryer |

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

## Contact Songhan Plastic Technology Co.,Ltd.

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