

Lehmann & Voss LUVOCOM® 19-7900 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. High-strength and high-stiff parts; low coefficient of expansion. 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-19-7900-Polyamide-46-with-carbon-fiber-and-PTFE.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-----------------------|-----------------------|-----------|
| Specific Gravity | 1.35 g/cc | 1.35 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 | 175 MPa | 25400 psi | |
| Elongation at Yield | 1.2 % | 1.2 % | |
| | 1.4 % | 1.4 % | flexural |
| Modulus of Elasticity | 20.0 GPa | 2900 ksi | |
| Flexural Strength | 250 MPa | 36300 psi | |
| Flexural Modulus | 17.0 GPa | 2470 ksi | |
| Charpy Impact Unnotched | 3.50 J/cmÂ² | 16.7 ft-lb/inÂ² | edgewise; ISO 179 1eU |

| Thermal Properties | Metric | English | Comments |
|---|------------|------------|------------|
| Maximum Service Temperature, Air | 150 Â°C | 302 Â°F | |
| | 160 Â°C | 320 Â°F | short term |
| Deflection Temperature at 1.8 MPa (264 psi) | >= 290 Â°C | >= 554 Â°F | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-------------|-------------|----------|
| Surface Resistance | <= 1000 ohm | <= 1000 ohm | |

| Insulation Resistance Electrical Properties | ≤ 1000 ohm Metric | ≤ 1000 ohm English | Comments |
|--|---------------------------------------|-----------------------------------|---------------------|
| Processing Properties | | | |
| 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 @Time 7200 - 43200 sec | 176 Â°F @Time 2.00 - 12.0 hour | Vacuum Dryer |
| | 80.0 Â°C @Time 7200 - 28800 sec | 176 Â°F @Time 2.00 - 8.00 hour | Dehumidifying dryer |

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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China