

Lehmann & Voss LUVOCOM[®] 19-7912 Polyamide 46, with carbon fiber

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. Antistatic. 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-19-7912-Polyamide-46-with-carbon-fiber.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-----------------------|-----------------------|-----------|
| Specific Gravity | 1.24 g/cc | 1.24 g/cc | ISO 1183 |
| Water Absorption | <= 1.0 % | <= 1.0 % | 23Â°C/24h |
| Linear Mold Shrinkage | 0.0030 - 0.0080 cm/cm | 0.0030 - 0.0080 in/in | |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|----------|-----------|----------|
| Tensile Stress | 160 MPa | 23200 psi | |
| Elongation at Yield | 3.5 % | 3.5 % | |
| | 4.0 % | 4.0 % | flexural |
| Modulus of Elasticity | 11.0 GPa | 1600 ksi | |
| Flexural Strength | 235 MPa | 34100 psi | |
| Flexural Modulus | 9.00 GPa | 1310 ksi | |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|---------|---------|------------|
| Maximum Service Temperature, Air | 150 Â°C | 302 Â°F | |
| | 160 Â°C | 320 Â°F | short term |

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

| Processing Properties | Metric | English | Comments |
|-----------------------|---------------------------------------|-----------------------------------|---------------------|
| 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