

Lehmann & Voss LUVOCOM[®] 6-8438-1 Polyamide 12, with glass fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 12 , Nylon 12, 20% Glass Fiber Filled

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Suitable for discharging of statically generated electricity. Dynamic stressed parts. Low water absorption. Handles, levers, rollers, body parts. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-6-8438-1-Polyamide-12-with-glass-fiber.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-----------------------|-----------------------|-----------------------|
| Specific Gravity | 1.22 g/cc | 1.22 g/cc | ISO 1183 |
| Water Absorption | <= 0.10 % | <= 0.10 % | 23 [°] C/24h |
| Linear Mold Shrinkage | 0.0030 - 0.0060 cm/cm | 0.0030 - 0.0060 in/in | |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|------------------------|----------------------------|-----------------------|
| Tensile Stress | 65.0 MPa | 9430 psi | |
| Elongation at Yield | 3.5 % | 3.5 % | |
| | 4.6 % | 4.6 % | flexural |
| Modulus of Elasticity | 4.00 GPa | 580 ksi | |
| Flexural Strength | 96.0 MPa | 13900 psi | |
| Flexural Modulus | 3.50 GPa | 508 ksi | |
| Charpy Impact Unnotched | 4.80 J/cm ² | 22.8 ft-lb/in ² | edgewise; ISO 179 1eU |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|---------------------|--------------------|------------|
| Maximum Service Temperature, Air | 90.0 [°] C | 194 [°] F | |
| | 140 [°] C | 284 [°] F | short term |

| Electrical Properties | Metric | English | Comments |
|-----------------------|------------------------|------------------------|----------|
| Surface Resistance | >= 1.00e+9 ohm | >= 1.00e+9 ohm | |
| Insulation Resistance | 1.00e+9 - 1.00e+11 ohm | 1.00e+9 - 1.00e+11 ohm | |

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

| Processing Temperature Processing Properties | 250 Â°C Metric | 482 Â°F English | mass temp Comments |
|---|--|-----------------------------------|-----------------------|
| Nozzle Temperature | 250 - 260 Â°C | 482 - 500 Â°F | |
| Zone 1 | 230 - 250 Â°C | 446 - 482 Â°F | |
| Zone 2 | 240 - 260 Â°C | 464 - 500 Â°F | |
| Zone 3 | 250 - 270 Â°C | 482 - 518 Â°F | |
| Mold Temperature | 70.0 - 110 Â°C | 158 - 230 Â°F | |
| Drying Temperature | 75.0 Â°C @Time 21600 - 36000 sec | 167 Â°F @Time 6.00 - 10.0 hour | Dehumidifying dryer |
| | 105 Â°C @Time <=14400 sec | 221 Â°F @Time <=4.00 hour | or |

| Descriptive Properties | Value | Comments |
|------------------------|---------------|----------|
| Color | graphite grey | |

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