

Lehmann & Voss LUVOCOM[®] 6-8512 Polyamide 12, with carbon fiber, lubricant modified

Category : Polymer , Thermoplastic , Nylon , Nylon 12 , Nylon 12, Carbon Fiber Filled

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Improved friction and wear behaviour. Emergency running property. Especially suitable at dynamic stress situations. Low water absorption, for dimensional stable precision parts. Bearings, sleeves, sliding elements, handles, machine parts. Information provided by Lehmann & Voss & Co. KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-6-8512-Polyamide-12-with-carbon-fiber-lubricant-modified.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--|--|-----------------------|
| Specific Gravity | 1.10 g/cc | 1.10 g/cc | ISO 1183 |
| Water Absorption | <= 0.10 % | <= 0.10 % | 23 [°] C/24h |
| Linear Mold Shrinkage | 0.0040 - 0.0080 cm/cm | 0.0040 - 0.0080 in/in | |
| Melt Flow | 3.3 g/10 min @Load 2.16 kg, Temperature 250 [°] C | 3.3 g/10 min @Load 4.76 lb, Temperature 482 [°] F | |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|------------------------|----------------------------|-----------------------|
| Tensile Stress | 60.0 MPa | 8700 psi | |
| Elongation at Yield | 5.0 % | 5.0 % | |
| | 7.0 % | 7.0 % | flexural |
| Modulus of Elasticity | 3.50 GPa | 508 ksi | |
| Flexural Strength | 90.0 MPa | 13100 psi | |
| Flexural Modulus | 3.00 GPa | 435 ksi | |
| Charpy Impact Unnotched | 7.00 J/cm ² | 33.3 ft-lb/in ² | flatwise; ISO 179 1fU |

| 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+11 ohm | >= 1.00e+11 ohm | |

| Insulation Resistance Electrical Properties | $\geq 1.00e+11$ ohm Metric | $\geq 1.00e+11$ ohm English | Comments |
|--|-------------------------------|--------------------------------|----------|
|--|-------------------------------|--------------------------------|----------|

| Processing Properties | Metric | English | Comments |
|------------------------|----------------------------|------------------------|---------------------|
| Processing Temperature | 250 Â°C | 482 Â°F | mass temp |
| 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 | 167 Â°F | Dehumidifying dryer |
| | @Time 21600 - 36000 sec | @Time 6.00 - 10.0 hour | |
| | 105 Â°C | 221 Â°F | or |
| | @Time <=14400 sec | @Time <=4.00 hour | |

| Descriptive Properties | Value | Comments |
|------------------------|-----------|----------|
| Color | dark 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