

Lehmann & Voss LUVOCOM[®] 3-8266 Polyamide 6, unreinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Applications: Automotive industry, textile machinery, apparatus- and precision engineering.Improved friction and wear behaviour. Emergency running property.Isotropic shrinkage characteristics.Reduced moment of inertia compared with metal parts.Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-3-8266-Polyamide-6-unreinforced.php

| Physical Properties | Metric | English | Comments |
|-----------------------|---------------------|---------------------|-----------|
| Specific Gravity | 1.68 g/cc | 1.68 g/cc | ISO 1183 |
| Water Absorption | <= 1.0 % | <= 1.0 % | 23Â°C/24h |
| Linear Mold Shrinkage | 0.011 - 0.015 cm/cm | 0.011 - 0.015 in/in | |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|---------------------------|------------------------------|-----------------------|
| Tensile Stress | 65.0 MPa | 9430 psi | |
| Elongation at Yield | 2.8 % | 2.8 % | |
| | 3.6 % | 3.6 % | flexural |
| Modulus of Elasticity | 4.30 GPa | 624 ksi | |
| Flexural Strength | 90.0 MPa | 13100 psi | |
| Flexural Modulus | 3.90 GPa | 566 ksi | |
| Charpy Impact Unnotched | 4.00 J/cm ^Â 2 | 19.0 ft-lb/in ^Â 2 | edgewise; ISO 179 1eU |
| Charpy Impact, Notched | 0.300 J/cm ^Â 2 | 1.43 ft-lb/in ^Â 2 | ISO 179 1eA |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|----------|---------|------------|
| Maximum Service Temperature, Air | 80.0 Â°C | 176 Â°F | |
| | 120 Â°C | 248 Â°F | short term |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------|-----------------|----------|
| Surface Resistance | >= 1.00e+10 ohm | >= 1.00e+10 ohm | |
| Insulation Resistance | >= 1.00e+10 ohm | >= 1.00e+10 ohm | |

| Processing Properties | Metric | English | Comments |
|------------------------|----------------------------|------------------------|---------------------|
| Processing Temperature | 270 Â°C | 518 Â°F | mass temp |
| Nozzle Temperature | 270 - 280 Â°C | 518 - 536 Â°F | |
| Zone 1 | 250 - 270 Â°C | 482 - 518 Â°F | |
| Zone 2 | 270 - 290 Â°C | 518 - 554 Â°F | |
| Zone 3 | 280 - 300 Â°C | 536 - 572 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 36000 - 57600 sec | @Time 10.0 - 16.0 hour | |
| | 105 Â°C | 221 Â°F | or |
| | @Time 14400 - 21600 sec | @Time 4.00 - 6.00 hour | |

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

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