

Lehmann & Voss LUVOCOM[®] 6-8503/BL Polyamide 12, unreinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Dynamic stressed parts. Low water absorption. Isotropic shrinkage characteristics. Bearings, sleeves, sliding elements, control disks, gear wheels, duty parts in switches. Information provided by Lehmann & Voss & Co. KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-6-8503BL-Polyamide-12-unreinforced.php

| Physical Properties | Metric | English | Comments |
|-----------------------|---|---|-----------|
| Specific Gravity | 1.20 g/cc | 1.20 g/cc | ISO 1183 |
| Water Absorption | <= 0.10 % | <= 0.10 % | 23Â°C/24h |
| Linear Mold Shrinkage | 0.010 - 0.015 cm/cm | 0.010 - 0.015 in/in | |
| Melt Flow | 6.0 g/10 min @Load 2.16 kg, Temperature 250 Â°C | 6.0 g/10 min @Load 4.76 lb, Temperature 482 Â°F | |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|-------------|-----------------|-----------------------|
| Tensile Stress | 45.0 MPa | 6530 psi | |
| Elongation at Yield | 5.0 % | 5.0 % | |
| | 7.0 % | 7.0 % | flexural |
| Modulus of Elasticity | 2.00 GPa | 290 ksi | |
| Flexural Strength | 65.0 MPa | 9430 psi | |
| Flexural Modulus | 1.50 GPa | 218 ksi | |
| Charpy Impact Unnotched | 11.0 J/cmÂ² | 52.3 ft-lb/inÂ² | edgewise; ISO 179 1eU |

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

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------|-----------------|----------|
| Surface Resistance | >= 1.00e+12 ohm | >= 1.00e+12 ohm | |
| Insulation Resistance | >= 1.00e+12 ohm | >= 1.00e+12 ohm | |

| 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 | sapphire blue | |

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