

Lehmann & Voss LUVOCOM[®] 50-0789 Polycarbonate, with carbon fiber, easy flowing

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Carbon Fiber Reinforced

Material Notes:

Applications: Data processing machinery, precision engineering, film and photo industry, sporting and leisure goods, medical engineering. High dimensionally stable precision parts with low warpage and narrow tolerance range. Electrically conductive, suitable for continuous discharging of statically generated electricity. Low influence from moisture and temperature to measures and electrical properties. Easy demoldability. Information provided by Lehmann & Voss & Co. KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-50-0789-Polycarbonate-with-carbon-fiber-easy-flowing.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--|--|-----------|
| Specific Gravity | 1.24 g/cc | 1.24 g/cc | ISO 1183 |
| Water Absorption | <= 0.20 % | <= 0.20 % | 23Â°C/24h |
| Linear Mold Shrinkage | 0.0030 - 0.0060 cm/cm | 0.0030 - 0.0060 in/in | |
| Melt Flow | 12.4 g/10 min @Load 1.20 kg, Temperature 300 Â°C | 12.4 g/10 min @Load 2.65 lb, Temperature 572 Â°F | |

| Mechanical Properties | Metric | English | Comments |
|----------------------------------|------------------------|----------------------------|-----------------------|
| Tensile Stress | 110 MPa | 16000 psi | |
| Elongation at Yield | 3.0 % | 3.0 % | |
| | 4.0 % | 4.0 % | flexural |
| Modulus of Elasticity | 7.00 GPa | 1020 ksi | |
| Flexural Strength | 150 MPa | 21800 psi | |
| Flexural Modulus | 5.50 GPa | 798 ksi | |
| Charpy Impact Unnotched | 4.00 J/cm ² | 19.0 ft-lb/in ² | flatwise; ISO 179 1fU |
| Coefficient of Friction, Dynamic | 0.20 | 0.20 | |
| Coefficient of Friction, Static | 0.18 | 0.18 | |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|---------|---------|------------|
| Maximum Service Temperature, Air | 130 Â°C | 266 Â°F | |
| | 150 Â°C | 302 Â°F | short term |

| Thermal Properties (at 1.8 MPa (264 psi)) | Metric | English | Comments |
|---|---------|---------|-------------|
| Vicat Softening Point | 160 Â°C | 320 Â°F | DIN ISO 306 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------|-----------|----------|
| Surface Resistance | 10000 ohm | 10000 ohm | |
| Insulation Resistance | 1000 ohm | 1000 ohm | |

| Processing Properties | Metric | English | Comments |
|------------------------|---------------------------------------|-----------------------------------|---------------------|
| Processing Temperature | 295 Â°C | 563 Â°F | mass temp |
| Nozzle Temperature | 290 - 310 Â°C | 554 - 590 Â°F | |
| Zone 1 | 280 - 300 Â°C | 536 - 572 Â°F | |
| Zone 2 | 290 - 310 Â°C | 554 - 590 Â°F | |
| Zone 3 | 300 - 320 Â°C | 572 - 608 Â°F | |
| Mold Temperature | 80.0 - 120 Â°C | 176 - 248 Â°F | |
| Drying Temperature | 120 Â°C @Time 14400 - 21600 sec | 248 Â°F @Time 4.00 - 6.00 hour | Dehumidifying dryer |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
| 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