

## Lehmann & Voss LUVOCOM<sup>®</sup> 1106-8154/GY Polyether imide, unreinforced, laser markable

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

### Material Notes:

Applications: High continuous use and heat distortion temperature. Non flammable. Dynamic stressed parts at high movement velocity. High dimensionally stable precision parts. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lehmann-Voss-LUVOCOM-1106-8154GY-Polyether-imide-unreinforced-laser-markable.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1106-8154GY-Polyether-imide-unreinforced-laser-markable.php)

| Physical Properties   | Metric                | English               | Comments              |
|-----------------------|-----------------------|-----------------------|-----------------------|
| Specific Gravity      | 1.37 g/cc             | 1.37 g/cc             | ISO 1183              |
| Water Absorption      | <= 0.30 %             | <= 0.30 %             | 23 <sup>°</sup> C/24h |
| Linear Mold Shrinkage | 0.0040 - 0.0080 cm/cm | 0.0040 - 0.0080 in/in |                       |

| Mechanical Properties   | Metric                  | English                    | Comments              |
|-------------------------|-------------------------|----------------------------|-----------------------|
| Tensile Stress          | 115 MPa                 | 16700 psi                  |                       |
| Elongation at Yield     | 6.6 %                   | 6.6 %                      |                       |
|                         | 8.3 %                   | 8.3 %                      | flexural              |
| Modulus of Elasticity   | 3.50 GPa                | 508 ksi                    |                       |
| Flexural Strength       | 165 MPa                 | 23900 psi                  |                       |
| Flexural Modulus        | 3.10 GPa                | 450 ksi                    |                       |
| Charpy Impact Unnotched | 9.80 J/cm <sup>2</sup>  | 46.6 ft-lb/in <sup>2</sup> | edgewise; ISO 179 1eU |
| Charpy Impact, Notched  | 0.600 J/cm <sup>2</sup> | 2.86 ft-lb/in <sup>2</sup> | ISO 179 1eA           |

| Thermal Properties                          | Metric             | English            | Comments             |
|---|--------------------|--------------------|----------------------|
| Maximum Service Temperature, Air            | 170 <sup>°</sup> C | 338 <sup>°</sup> F |                      |
| Deflection Temperature at 1.8 MPa (264 psi) | 200 <sup>°</sup> C | 392 <sup>°</sup> F |                      |
| Flammability, UL94                          | V-0                | V-0                | not recognized by UL |

| 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 |          |

| Electrical Properties  | Metric            | English           | Comments            |
|------------------------|-------------------|-------------------|---------------------|
| Processing Properties  | Metric            | English           | Comments            |
| Processing Temperature | 380 Â°C           | 716 Â°F           | mass temp           |
| Nozzle Temperature     | 350 - 400 Â°C     | 662 - 752 Â°F     |                     |
| Zone 1                 | 330 - 350 Â°C     | 626 - 662 Â°F     |                     |
| Zone 2                 | 340 - 390 Â°C     | 644 - 734 Â°F     |                     |
| Zone 3                 | 350 - 400 Â°C     | 662 - 752 Â°F     |                     |
| Mold Temperature       | 150 - 180 Â°C     | 302 - 356 Â°F     |                     |
| Drying Temperature     | 120 Â°C           | 248 Â°F           | Dehumidifying dryer |
|                        | @Time >=28800 sec | @Time >=8.00 hour |                     |
|                        | 150 Â°C           | 302 Â°F           | or                  |
|                        | @Time >=14400 sec | @Time >=4.00 hour |                     |

| Descriptive Properties | Value      | Comments |
|------------------------|------------|----------|
| Color                  | telegrey 2 |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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