

## Lehmann & Voss LUVOCOM® 1850-7581-1 PBT, with carbon fiber and PTFE

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Carbon Fiber Filled

### Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Electrically conductive, suitable for continuous discharging of statically generated electricity. Parts for electric and electronic industry. Coil formers, duty parts in plugs and switches, even combined with metal inserts. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lehmann-Voss-LUVOCOM-1850-7581-1-PBT-with-carbon-fiber-and-PTFE.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1850-7581-1-PBT-with-carbon-fiber-and-PTFE.php)

| Physical Properties   | Metric                                                 | English                                                | Comments  |
|-----------------------|--------------------------------------------------------|--------------------------------------------------------|-----------|
| Specific Gravity      | 1.52 g/cc                                              | 1.52 g/cc                                              | ISO 1183  |
| Water Absorption      | <= 0.10 %                                              | <= 0.10 %                                              | 23Â°C/24h |
| Linear Mold Shrinkage | 0.0010 - 0.0040 cm/cm                                  | 0.0010 - 0.0040 in/in                                  |           |
| Melt Flow             | 22.8 g/10 min<br>@Load 5.00 kg,<br>Temperature 250 Â°C | 22.8 g/10 min<br>@Load 11.0 lb,<br>Temperature 482 Â°F |           |

| Mechanical Properties            | Metric      | English         | Comments              |
|----------------------------------|-------------|-----------------|-----------------------|
| Tensile Stress                   | 145 MPa     | 21000 psi       |                       |
| Elongation at Yield              | 1.5 %       | 1.5 %           |                       |
|                                  | 1.9 %       | 1.9 %           | flexural              |
| Modulus of Elasticity            | 20.0 GPa    | 2900 ksi        |                       |
| Flexural Strength                | 200 MPa     | 29000 psi       |                       |
| Flexural Modulus                 | 17.0 GPa    | 2470 ksi        |                       |
| Charpy Impact Unnotched          | 3.20 J/cmÂ² | 15.2 ft-lb/inÂ² | edgewise; ISO 179 1eU |
| Coefficient of Friction, Dynamic | 0.14        | 0.14            |                       |
| Coefficient of Friction, Static  | 0.10        | 0.10            |                       |

| Thermal Properties                          | Metric  | English | Comments   |
|---------------------------------------------|---------|---------|------------|
| Maximum Service Temperature, Air            | 130 Â°C | 266 Â°F |            |
|                                             | 180 Â°C | 356 Â°F | short term |
| Deflection Temperature at 1.8 MPa (264 psi) | 210 Â°C | 410 Â°F |            |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|
|--------------------|--------|---------|----------|

| Electrical Properties | Metric     | English    | Comments |
|-----------------------|------------|------------|----------|
| Insulation Resistance | <= 100 ohm | <= 100 ohm |          |

| Processing Properties  | Metric                  | English                | Comments            |
|------------------------|-------------------------|------------------------|---------------------|
| Processing Temperature | 250 Â°C                 | 482 Â°F                | mass temp           |
| Nozzle Temperature     | 250 - 265 Â°C           | 482 - 509 Â°F          |                     |
| Zone 1                 | 240 - 260 Â°C           | 464 - 500 Â°F          |                     |
| Zone 2                 | 260 - 280 Â°C           | 500 - 536 Â°F          |                     |
| Zone 3                 | 250 - 270 Â°C           | 482 - 518 Â°F          |                     |
| Mold Temperature       | 60.0 - 120 Â°C          | 140 - 248 Â°F          |                     |
| Drying Temperature     | 80.0 Â°C                | 176 Â°F                | Vacuum Dryer        |
|                        | @Time 21600 - 28800 sec | @Time 6.00 - 8.00 hour |                     |
|                        | 120 Â°C                 | 248 Â°F                | Dehumidifying dryer |
|                        | @Time 14400 - 21600 sec | @Time 4.00 - 6.00 hour |                     |

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

## Contact Songhan Plastic Technology Co.,Ltd.

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