

## Techmer ES Luriblend® TPX-PPO/HIPS-02072 BK

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polystyrene (PS) , Polystyrene + Polyphenylene Ether + Nylon, Unreinforced

### Material Notes:

Availability: North America Forms: Pellets Additive: PTFE Lubricant Features: Lubricated, Good Wear Resistance, Low Friction and Homopolymer UL File Number: E157318 Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-Luriblend-TPX-PPOHIPS-02072-BK.php](http://www.lookpolymers.com/polymer_Techmer-ES-Luriblend-TPX-PPOHIPS-02072-BK.php)

| Physical Properties         | Metric             | English                   | Comments  |
|-----------------------------|--------------------|---------------------------|-----------|
| Density                     | 1.11 g/cc          | 0.0401 lb/in <sup>3</sup> | ASTM D792 |
| Water Absorption            | 0.10 %             | 0.10 %                    | ASTM D570 |
|                             | @Time 86400 sec    | @Time 24.0 hour           |           |
| Linear Mold Shrinkage, Flow | 0.0060 cm/cm       | 0.0060 in/in              | ASTM D955 |
|                             | @Thickness 3.17 mm | @Thickness 0.125 in       |           |

| Mechanical Properties   | Metric             | English             | Comments  |
|-------------------------|--------------------|---------------------|-----------|
| Tensile Strength        | 37.9 MPa           | 5500 psi            | ASTM D638 |
| Elongation at Yield     | 55 %               | 55 %                | ASTM D638 |
| Flexural Yield Strength | 83.4 MPa           | 12100 psi           | ASTM D790 |
| Flexural Modulus        | 2.07 GPa           | 300 ksi             | ASTM D790 |
| Izod Impact, Notched    | 2.19 J/cm          | 4.10 ft-lb/in       | ASTM D256 |
|                         | @Thickness 3.17 mm | @Thickness 0.125 in |           |
| Izod Impact, Unnotched  | 21.4 J/cm          | 40.0 ft-lb/in       | ASTM D256 |
|                         | @Thickness 3.17 mm | @Thickness 0.125 in |           |

| Thermal Properties                          | Metric         | English          | Comments              |
|---|----------------|------------------|-----------------------|
| CTE, linear, Parallel to Flow               | 64.8 Åµm/m-Å°C | 36.0 Åµin/in-Å°F | ASTM D696             |
| Deflection Temperature at 0.46 MPa (66 psi) | 113 Å°C        | 235 Å°F          | Unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 97.2 Å°C       | 207 Å°F          | Unannealed; ASTM D648 |

| Electrical Properties | Metric          | English         | Comments  |
|-----------------------|-----------------|-----------------|-----------|
| Volume Resistivity    | 1.00e+15 ohm-cm | 1.00e+15 ohm-cm | ASTM D257 |

## **Contact Songhan Plastic Technology Co.,Ltd.**

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