

## Techmer ES Plastiblend® PSU CR X

Category : Polymer , Thermoplastic , Polysulfone (PSU) , Polysulfone, Modified

### Material Notes:

Availability: North America Forms: Pellets Additive: TPU Impact Modifier Features: Impact Modified Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-Plastiblend-PSU-CR-X.php](http://www.lookpolymers.com/polymer_Techmer-ES-Plastiblend-PSU-CR-X.php)

| Physical Properties | Metric                    | English                   | Comments  |
|---------------------|---------------------------|---------------------------|-----------|
| Density             | 1.24 g/cc                 | 0.0448 lb/in <sup>3</sup> | ASTM D792 |
| Water Absorption    | 0.30 %<br>@Time 86400 sec | 0.30 %<br>@Time 24.0 hour | ASTM D570 |

| Mechanical Properties   | Metric                           | English                              | Comments  |
|-------------------------|----------------------------------|--------------------------------------|-----------|
| Hardness, Rockwell R    | 120                              | 120                                  | ASTM D785 |
| Tensile Strength, Yield | 88.3 MPa                         | 12800 psi                            | ASTM D638 |
| Elongation at Yield     | 5.0 %                            | 5.0 %                                | ASTM D638 |
| Flexural Yield Strength | 110 MPa                          | 15900 psi                            | ASTM D790 |
| Flexural Modulus        | 2.59 GPa                         | 375 ksi                              | ASTM D790 |
| Izod Impact, Notched    | 0.908 J/cm<br>@Thickness 3.17 mm | 1.70 ft-lb/in<br>@Thickness 0.125 in | ASTM D256 |

| Thermal Properties                          | Metric        | English         | Comments              |
|---------------------------------------------|---------------|-----------------|-----------------------|
| CTE, linear, Parallel to Flow               | 72.0 Åm/m-Å°C | 40.0 Åin/in-Å°F | ASTM D696             |
| Deflection Temperature at 1.8 MPa (264 psi) | 79.4 Å°C      | 175 Å°F         | Unannealed; ASTM D648 |

| Electrical Properties | Metric          | English         | Comments                         |
|-----------------------|-----------------|-----------------|----------------------------------|
| Volume Resistivity    | 1.00e+17 ohm-cm | 1.00e+17 ohm-cm | ASTM D257                        |
| Dielectric Strength   | 21.7 kV/mm      | 550 kV/in       | Method A (Short-Time); ASTM D149 |

## Contact Songhan Plastic Technology Co.,Ltd.

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