

## Techmer ES Statiblend® PC/ABS 830 SS7 BK with Stainless Steel Fiber

Category : Polymer , Thermoplastic , ABS Polymer , PC/ABS + Stainless Steel , Polycarbonate (PC)

### Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Stainless Steel Fiber, 7% Filler by Weight Appearance: Black Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-Statiblend-PCABS-830-SS7-BK-with-Stainless-Steel-Fiber.php](http://www.lookpolymers.com/polymer_Techmer-ES-Statiblend-PCABS-830-SS7-BK-with-Stainless-Steel-Fiber.php)

| Physical Properties | Metric                    | English                   | Comments  |
|---------------------|---------------------------|---------------------------|-----------|
| Density             | 1.19 g/cc                 | 0.0430 lb/in <sup>3</sup> | ASTM D792 |
| Water Absorption    | 0.10 %<br>@Time 86400 sec | 0.10 %<br>@Time 24.0 hour | ASTM D570 |

| Mechanical Properties   | Metric                          | English                              | Comments  |
|-------------------------|---------------------------------|--------------------------------------|-----------|
| Hardness, Rockwell R    | 115                             | 115                                  | ASTM D785 |
| Tensile Strength, Yield | 53.1 MPa                        | 7700 psi                             | ASTM D638 |
| Elongation at Yield     | 130 %                           | 130 %                                | ASTM D638 |
| Flexural Yield Strength | 82.7 MPa                        | 12000 psi                            | ASTM D790 |
| Flexural Modulus        | 2.34 GPa                        | 340 ksi                              | ASTM D790 |
| Izod Impact, Notched    | 5.87 J/cm<br>@Thickness 3.17 mm | 11.0 ft-lb/in<br>@Thickness 0.125 in | ASTM D256 |

| Thermal Properties                          | Metric       | English        | Comments              |
|---------------------------------------------|--------------|----------------|-----------------------|
| CTE, linear, Parallel to Flow               | 73.8 Åm/m-ÅC | 41.0 Åin/in-ÅF | ASTM D696             |
| Deflection Temperature at 1.8 MPa (264 psi) | 110 ÅC       | 230 ÅF         | Unannealed; ASTM D648 |
| Flammability, UL94                          | HB           | HB             |                       |

| Electrical Properties | Metric       | English      | Comments  |
|-----------------------|--------------|--------------|-----------|
| Volume Resistivity    | 10000 ohm-cm | 10000 ohm-cm | ASTM D257 |

## Contact Songhan Plastic Technology Co.,Ltd.

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