

## I. Stern 550 High Impact Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Impact Modified

### Material Notes:

Features: Good process properties Excellent toughness and environmental stress cracking Applications: Structural foam Displays Small appliances Agency Ratings: FDA Title 21 CFR 177.1640 UL File E220962 Information provided by I. Stern & Co. Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_I-Stern-550-High-Impact-Polystyrene.php](http://www.lookpolymers.com/polymer_I-Stern-550-High-Impact-Polystyrene.php)

| Physical Properties | Metric      | English     | Comments   |
|---------------------|-------------|-------------|------------|
| Melt Flow           | 10 g/10 min | 10 g/10 min | ASTM D1238 |

| Mechanical Properties   | Metric    | English       | Comments  |
|-------------------------|-----------|---------------|-----------|
| Tensile Strength, Yield | 14.5 MPa  | 2100 psi      | ASTM D638 |
| Elongation at Yield     | 50 %      | 50 %          | ASTM D638 |
| Flexural Strength       | 27.6 MPa  | 4000 psi      | ASTM D790 |
| Flexural Modulus        | 1.80 GPa  | 261 ksi       | ASTM D790 |
| Izod Impact, Notched    | 1.07 J/cm | 2.00 ft-lb/in | ASTM D256 |

| Thermal Properties                          | Metric             | English              | Comments   |
|---------------------------------------------|--------------------|----------------------|------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 81.1 Â°C           | 178 Â°F              | ASTM D648  |
| Vicat Softening Point                       | 89.4 Â°C           | 193 Â°F              | ASTM D1525 |
| Flammability, UL94                          | HB                 | HB                   |            |
|                                             | @Thickness 1.50 mm | @Thickness 0.0591 in |            |
|                                             | HB                 | HB                   |            |
|                                             | @Thickness 3.00 mm | @Thickness 0.118 in  |            |

## Contact Songhan Plastic Technology Co.,Ltd.

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