

## Americas Styrenics STYRON® 678D High Heat Crystal Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Heat Resistant Grade

**Material Notes:**

Product Characteristics High heat resistance Excellent clarity Good moldability Food Contact Compliant Typical Applications Disposable cutlery Housewares Compact disc and DVD jewel boxes Desk organizers Information provided by Americas Styrenics LLC.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Americas-Styrenics-STYRON-678D-High-Heat-Crystal-Polystyrene.php](http://www.lookpolymers.com/polymer_Americas-Styrenics-STYRON-678D-High-Heat-Crystal-Polystyrene.php)

| Physical Properties   | Metric  | English   | Comments   |
|-----------------------|---|---|------------|
| Specific Gravity      | 1.04 g/cc   | 1.04 g/cc   | ASTM D792  |
| Linear Mold Shrinkage | 0.0040 - 0.0080 cm/cm                               | 0.0040 - 0.0080 in/in                               | ASTM D955  |
| Melt Flow             | 10 g/10 min<br>@Load 5.00 kg,<br>Temperature 200 °C | 10 g/10 min<br>@Load 11.0 lb,<br>Temperature 392 °F | ASTM D1238 |

| Mechanical Properties     | Metric     | English        | Comments  |
|---------------------------|------------|----------------|-----------|
| Hardness, Rockwell L      | 107        | 107            | ASTM D785 |
| Tensile Strength at Break | 37.2 MPa   | 5400 psi       | ASTM D638 |
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| Elongation at Break       | 3.0 %      | 3.0 %          | ASTM D638 |
| Tensile Modulus           | 3.10 GPa   | 450 ksi        | ASTM D638 |
| Flexural Strength         | 57.9 MPa   | 8400 psi       | ASTM D790 |
| Flexural Modulus          | 3.38 GPa   | 490 ksi        | ASTM D790 |
| Izod Impact, Notched      | 0.214 J/cm | 0.400 ft-lb/in | ASTM D256 |

| Thermal Properties                          | Metric       | English        | Comments   |
|---|--------------|----------------|------------|
| CTE, linear                                 | 90.0 µm/m-°C | 50.0 µin/in-°F | ASTM D696  |
| Deflection Temperature at 0.46 MPa (66 psi) | 86.1 °C      | 187 °F         | ASTM D648  |
| Deflection Temperature at 1.8 MPa (264 psi) | 80.0 °C      | 176 °F         | ASTM D648  |
| Vicat Softening Point                       | 97.2 °C      | 207 °F         | ASTM D1525 |

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