

## Total 620 Polystyrene (discontinued \*\*)

Category : Polymer , Thermoplastic , Polystyrene (PS)

### Material Notes:

Polystyrene 620 is an impact polystyrene designed for high gloss cap layers. The polymer has been specifically designed for co extrusion processing to produce a ductile sheet with an extremely high gloss. Information provided by Total Petrochemicals, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Total-620-Polystyrene-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Total-620-Polystyrene-nbspdiscontinued-.php)

| Physical Properties | Metric                               | English                              | Comments   |
|---------------------|--------------------------------------|--------------------------------------|------------|
| Melt Flow           | 4.0 g/10 min                         | 4.0 g/10 min                         | ASTM D1238 |
|                     | @Load 5.00 kg,<br>Temperature 200 °C | @Load 11.0 lb,<br>Temperature 392 °F |            |

| Mechanical Properties   | Metric     | English        | Comments   |
|-------------------------|------------|----------------|------------|
| Tensile Strength, Yield | 32.4 MPa   | 4700 psi       | ASTM D638  |
| Elongation at Yield     | 35 %       | 35 %           | ASTM D638  |
| Tensile Modulus         | 2.21 GPa   | 320 ksi        | ASTM D638  |
| Flexural Strength       | 58.6 MPa   | 8500 psi       | ASTM D790  |
| Flexural Modulus        | 2.34 GPa   | 340 ksi        | ASTM D790  |
| Izod Impact, Notched    | 0.320 J/cm | 0.600 ft-lb/in | ASTM D256  |
| Falling Dart Impact     | 0.447 J    | 0.330 ft-lb    | ASTM D3029 |

| Thermal Properties               | Metric  | English | Comments                             |
|----------------------------------|---------|---------|--------------------------------------|
| Maximum Service Temperature, Air | 87.8 °C | 190 °F  | Heat Distortion, Annealed; ASTM D648 |
| Vicat Softening Point            | 98.3 °C | 209 °F  | ASTM D1525                           |

| Optical Properties | Metric | English | Comments       |
|--------------------|--------|---------|----------------|
| Gloss              | 62 %   | 62 %    | 20°; ASTM D523 |
|                    | 100 %  | 100 %   | 60°; ASTM D523 |

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