

## Total 680 Polystyrene (discontinued \*\*)

Category : Polymer , Thermoplastic , Polystyrene (PS)

**Material Notes:**

Polystyrene 680 is a medium impact polystyrene developed for the foam extrusion and laminate markets. This polymers impact qualities in conjunction with its high flexural strength allow 680 to be extruded for foam laminates and film. Applications using crystal polystyrene that require some impact without extreme clarity, such as window envelope film, should consider 680. 680 also excels as an OPS modifier. Information provided by Total Petrochemicals, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Total-680-Polystyrene-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Total-680-Polystyrene-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Melt Flow	2.0 g/10 min @Load 5.00 kg, Temperature 200 °C	2.0 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	49.0 MPa	7100 psi	ASTM D638
Elongation at Yield	5.0 %	5.0 %	ASTM D638
Tensile Modulus	2.76 GPa	400 ksi	ASTM D638
Flexural Strength	89.6 MPa	13000 psi	ASTM D790
Flexural Modulus	2.96 GPa	430 ksi	ASTM D790
Izod Impact, Notched	0.481 J/cm	0.900 ft-lb/in	ASTM D256
Falling Dart Impact	0.678 J	0.500 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	97.2 °C	207 °F	Heat Distortion, Annealed; ASTM D648
Vicat Softening Point	104 °C	220 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Gloss	95 %	95 %	60°; ASTM D523

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