

## Total PSI 845E Polystyrene

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

### Material Notes:

Polystyrene 845E is a high impact polystyrene specially designed for the custom sheet market. The polymer produces tough, ductile sheet with a rich matte finish. This material is especially suitable for printing and thermoforming applications. Information provided by Total Petrochemicals, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Total-PSI-845E-Polystyrene.php](http://www.lookpolymers.com/polymer_Total-PSI-845E-Polystyrene.php)

Physical Properties	Metric	English	Comments
Melt Flow	3.0 g/10 min @Load 5.00 kg, Temperature 200 °C	3.0 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	22.1 MPa	3200 psi	ASTM D638
Elongation at Yield	55 %	55 %	ASTM D638
Tensile Modulus	1.93 GPa	280 ksi	ASTM D638
Flexural Strength	42.7 MPa	6200 psi	ASTM D790
Flexural Modulus	1.93 GPa	280 ksi	ASTM D790
Izod Impact, Notched	1.17 J/cm	2.20 ft-lb/in	ASTM D256
Falling Dart Impact	12.43 J	9.167 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	91.7 °C	197 °F	Heat Distortion, Annealed; ASTM D648
Vicat Softening Point	96.7 °C	206 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Gloss	63 %	63 %	60°; ASTM D523

## Contact Songhan Plastic Technology Co.,Ltd.

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