

## Total PSI 844E Polystyrene

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

**Material Notes:**

Polystyrene 844E is a high impact polystyrene specially designed for the custom sheet market. The polymer produces tough ductile sheet with a rich matte finish. 844E is specially formulated to minimize die buildup. 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-844E-Polystyrene.php](http://www.lookpolymers.com/polymer_Total-PSI-844E-Polystyrene.php)

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

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	19.3 MPa	2800 psi	ASTM D638
Elongation at Yield	55 %	55 %	ASTM D638
Tensile Modulus	1.72 GPa	250 ksi	ASTM D638
Flexural Strength	41.4 MPa	6000 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	13.0 J	9.58 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	98.9 °C	210 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Gloss	58 %	58 %	60°; ASTM D523

## Contact Songhan Plastic Technology Co.,Ltd.

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