

## Description

**Polystyrene 845E:** High impact polystyrene specially designed for the custom sheet market. The polymer produces tough, ductile sheet with a rich matte finish.

### Application:

- This low gloss resin is an excellent choice for printing and thermoforming applications.
- The impact and tensile properties are preferred in deep draw and thermoforming applications.

### General Information:

- This material complies with FDA requirements as described in 21 CFR §177.1640.
- This material holds Underwriters Laboratory recognition 94HB; see UL File E55470 at [www.UL.com](http://www.UL.com).
- USP Class VI
- Material Safety Data Sheets are available to help customers satisfy their safety needs.

## Characteristics

	Method	Unit	Typical Value
<b>Rheological Properties</b>			
Melt Flow (200°C-5kg)	D-1238	g/10mn	3.0
<b>Mechanical Properties</b>			
Falling Dart	D-3029	in-lb	110
Izod - notched	D-256	ft-lbs/in	2.4
Tensile Strength	D-638	psi	3,200
Tensile Modulus	D-638	psi (10 <sup>5</sup> )	2.8
Elongation	D-638	%	55
Flexural Strength	D-790	psi	6,200
Flexural Modulus	D-790	psi (10 <sup>5</sup> )	2.8
<b>Thermal Properties</b>			
Heat Distortion - Annealed	D-648	°F	199
Vicat Softening	D-1525	°F	212
<b>Other Physical Properties</b>			
Gloss	D-523	60°	63
Density		g/cm <sup>3</sup>	1.04
Linear Shrinkage	D-955	in/in	.004 - .007
Moisture		%	<0.1