



**TotalEnergies**

TotalEnergies Petrochemicals & Refining USA, Inc.  
Polymers Americas

+135-3858-6433 (GuangDong)  
+188-1699-6168 (ShangHai)  
+852-6957-5415 (HongKong)

## Polystyrene 533B

Technical Data Sheet  
Polystyrene - Crystal  
Produced in the United States

### Description

**Polystyrene 533B:** Is a medium melt flow crystal polystyrene developed for extrusion foam board (construction) and foam sheet (food containers).

#### Application:

- Insulation foam board

#### General Information:

- This material complies with FDA requirements as described in 21 CFR §177.1640.
- 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	4.5
<b>Mechanical Properties</b>			
Tensile Strength	D-638	psi	7,400
Tensile Modulus	D-638	psi (10 <sup>5</sup> )	4.3
Flexural Strength	D-790	psi	14,000
Flexural Modulus	D-790	psi (10 <sup>5</sup> )	4.5
<b>Thermal Properties</b>			
Heat Distortion - Annealed	D-648	°F	208
Vicat Softening	D-1525	°F	222
<b>Other Physical Properties</b>			
Density		g/cm <sup>3</sup>	1.04
Linear Shrinkage	D-955	in/in	.004 - .007
Moisture		%	<0.1

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