

## Description

**Polystyrene 535B:** Is a high heat crystal polystyrene designed for injection molding, extrusion, and blow molding. The material demonstrates excellent strength and good temperature resistance.

### Application:

- Electronics packaging
- Cutlery
- Office accessories
- Medical
- Appliance components

### 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	4.0
<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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TOTALENERGIES PETROCHEMICALS & REFINING USA, INC.  
POLYMERS AMERICAS  
1201 Louisiana Street  
Suite 1800  
Houston, TX 77002  
[www.polymers.totalenergies.com](http://www.polymers.totalenergies.com)

TECHNICAL CENTER  
P.O. Box 1200  
Deer Park, Texas 77536  
Phone: 281-884-7500

**1-800-344-3462**