



**TotalEnergies**

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## Polystyrene 524B

Technical Data Sheet  
Polystyrene - Crystal  
Produced in the United States

### Description

**Polystyrene 524B:** Is general purpose crystal polystyrene targeted for gloss coextrusion cap applications. It is specially formulated to drastically reduce die buildup, die lines, and die maintenance.

#### Application:

- High gloss coextrusion capping
- Blending crystal

#### 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	9.0
<b>Mechanical Properties</b>			
Tensile Strength	D-638	psi	6,700
Tensile Modulus	D-638	psi (10 <sup>5</sup> )	4.4
Flexural Strength	D-790	psi	13,500
Flexural Modulus	D-790	psi (10 <sup>5</sup> )	4.5
<b>Thermal Properties</b>			
Heat Distortion - Annealed	D-648	°F	200
Vicat Softening	D-1525	°F	213
<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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