



**TotalEnergies**

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## Polystyrene 529W

Technical Data Sheet  
Polystyrene - Crystal  
Produced in the United States

### Description

**Polystyrene 529W:** Is a medium flow crystal polystyrene specially formulated for mar resistance. This easy processing crystal grade minimizes visual defects from ejection and automated part handling. The unique molecular architecture maximizes part strength while maintaining excellent process performance. It is an economical alternative to SAN and polycarbonate.

#### Application:

- Electronics
- Office accessories
- 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	3.5
<b>Mechanical Properties</b>			
Tensile Strength	D-638	psi	7,500
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> )	4.3
<b>Thermal Properties</b>			
Heat Distortion - Annealed	D-648	°F	196
Vicat Softening	D-1525	°F	208
<b>Other Physical Properties</b>			
Density		g/cm <sup>3</sup>	1.04
Linear Shrinkage	D-955	in/in	.004 - .007
Moisture		%	<0.1

Polystyrene