

## Description

**Polystyrene 585W:** Is a high molecular weight, low melt flow, low melt flow, high heat crystal polystyrene. This polymer makes superior foam and oriented polystyrene sheet (OPS). The TOTAL process technology consistently produces low residual product for foam and OPS applications.

### Application:

- Foam disposables
- Insulation foam board
- OPS disposables

### 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	1.6
<b>Mechanical Properties</b>			
Tensile Strength	D-638	psi	7,600
Tensile Modulus	D-638	psi (10 <sup>5</sup> )	4.3
Flexural Strength	D-790	psi	14,200
Flexural Modulus	D-790	psi (10 <sup>5</sup> )	4.3
<b>Thermal Properties</b>			
Heat Distortion - Annealed	D-648	°F	211
Vicat Softening	D-1525	°F	225
<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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 TOTAL PETROCHEMICALS & REFINING USA, INC.  
 POLYMERS AMERICAS  
[www.totalrefiningchemicals.com](http://www.totalrefiningchemicals.com)  
 1201 Louisiana Street  
 Suite 1800  
 Houston, TX 77002

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

**1-800-344-3462**