

Technical Data Sheet Crystal Polystyrene

Produced in the United States

## **Description**

**Polystyrene 500W:** Is a high melt flow crystal polystyrene for high speed injection molding applications. The high flow characteristics make it easy to fill thin wall parts. Additionally, this material exhibits excellent clarity, strength and has a neutral water-white tint.

## Application:

- Cutlery, tumblers, and containers
- Gloss capping material
- Blending crystal
- Masterbatch carrier

## **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.
- USP Class VI
- Material Safety Data Sheets are available to help customers satisfy their safety needs.

## **Characteristics**

	Method	Unit	Typical Value
Rheological Properties			
Melt Flow (200°C-5kg)	D-1238	g/10mn	14
Mechanical Properties			
Tensile Strength	D-638	psi	6,400
Tensile Modulus	D-638	psi (10 <sup>5</sup> )	4.5
Flexural Strength	D-790	psi	12,200
Flexural Modulus	D-790	psi (10 <sup>5</sup> )	4.6
Thermal Properties			
Heat Distortion - Annealed	D-648	°F	195
Vicat Softening	D-1525	°F	206
Other Physical Properties			
Density		g/cm <sup>3</sup>	1.04
Linear Shrinkage	D-955	in/in	.004007
Moisture		%	<0.1

500W 2/2014



TOTAL PETROCHEMICALS & REFINING USA, INC. POLYMERS AMERICAS 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

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