

## 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](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	14
<b>Mechanical Properties</b>			
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
<b>Thermal Properties</b>			
Heat Distortion - Annealed	D-648	°F	195
Vicat Softening	D-1525	°F	206
<b>Other Physical Properties</b>			
Density		g/cm <sup>3</sup>	1.04
Linear Shrinkage	D-955	in/in	.004 - .007
Moisture		%	<0.1