

Technical Data Sheet
Polystyrene - Crystal
Produced in the United States

TotalEnergies Petrochemicals & Refining USA, Inc. Polymers Americas

## **Description**

**Polystyrene 525B:** Is a crystal polystyrene for both injection molding and cap layer coextrusion. Injection molding applications such as medical and laboratory parts, tumblers and jewel boxes demonstrate the polymer's ability to be molded with minimal stresses and fast cycles.

## Application:

- Cutlery
- Coextrusion capping
- Medical applications

## **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 II
- 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	9.0	
Mechanical Properties				
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	
Thermal Properties	ENJICAI			
Heat Distortion - Annealed	D-648	°F	200	
Vicat Softening	D-1525	°F	213	
Other Physical Properties				
Density		g/cm <sup>3</sup>	1.04	
Linear Shrinkage	D-955	in/in	.004007	
Moisture		%	<0.1	

Rev: Sept 2021

TOTALENERGIES PETROCHEMICALS & REFINING USA, INC. POLYMERS AMERICAS 1201 Louisiana Street Suite 1800 Houston, TX 77002 www.polymers.totalenergies.com

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

1-800-344-3462