Polystyrene 525B

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 (10^5)	4.4
Flexural Strength	D-790	psi	13,500
Flexural Modulus	D-790	psi (10^5)	4.5
Thermal Properties			
Heat Distortion - Annealed	D-648	°F	200
Vicat Softening	D-1525	°F	213
Other Physical Properties			
Density		g/cm^3	1.04
Linear Shrinkage	D-955	in/in	.004 - .007
Moisture		%	<0.1

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