



TotalEnergies

TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

Description

Polystyrene 524B: Is general purpose crystal polystyrene targeted for gloss coextrusion cap applications. It is specially formulated to drastically reduce die buildup, die lines, and die maintenance.

Application:

- High gloss coextrusion capping
- Blending crystal

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	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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Polystyrene

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