



TotalEnergies

TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

Polystyrene 535B

Technical Data Sheet
Polystyrene - Crystal
Produced in the United States

Description

Polystyrene 535B: Is a high heat crystal polystyrene designed for injection molding, extrusion, and blow molding. The material demonstrates excellent strength and good temperature resistance.

Application:

- Electronics packaging
- Cutlery
- Office accessories
- Medical
- Appliance components

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	4.0
Mechanical Properties			
Tensile Strength	D-638	psi	7,400
Tensile Modulus	D-638	psi (10 ⁵)	4.3
Flexural Strength	D-790	psi	14,000
Flexural Modulus	D-790	psi (10 ⁵)	4.5
Thermal Properties			
Heat Distortion - Annealed	D-648	°F	208
Vicat Softening	D-1525	°F	222
Other Physical Properties			
Density		g/cm ³	1.04
Linear Shrinkage	D-955	in/in	.004 - .007
Moisture		%	<0.1