



TotalEnergies

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Polystyrene 825

Technical Data Sheet
Polystyrene - Impact
Produced in the United States

Description

Polystyrene 825: The high impact polystyrene for injection molding. This easy processing grade allows fast cycle times with minimal post stress resulting in outstanding impact retention. Advanced rubber particle size control makes this polymer the choice for all high gloss applications.

Application:

- Appliance housings
- Housewares and toys
- Structural foam
- Refrigeration 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 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	8.0
Mechanical Properties			
Falling Dart	D-3029	in-lb	110
Izod - notched	D-256	ft-lbs/in	2.0
Tensile Strength	D-638	psi	3,600
Tensile Modulus	D-638	psi (10 ⁵)	3.3
Elongation	D-638	%	45
Flexural Strength	D-790	psi	6,500
Flexural Modulus	D-790	psi (10 ⁵)	3.4
Thermal Properties			
Heat Distortion - Annealed	D-648	°F	193
Vicat Softening	D-1525	°F	205
Other Physical Properties			
Gloss	D-523	60°	90
Density		g/cm ³	1.04
Linear Shrinkage	D-955	in/in	.004 - .007
Moisture		%	<0.1

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