

TOTAL Polystyrene Crystal 525L

General Purpose Polystyrene

TOTAL Refining & Chemicals

Message:

Polystyrene 525L: Is a crystal polystyrene with low residuals that is ideally suited for blending with clear elastomers for extrusion-thermoforming applications that require low odor and taste. Total Petrochemicals 525L can also be used as a cap layer for coextrusion applications that require a glossy finish, or in injection molding. 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:

Blending with clear styrenic elastomers

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 VI

Material Safety Data Sheets are available to help customers satisfy their safety needs.

General Information			
Features	Good Gloss		
	Low Residuals		
	Fast molding cycle		
	The smell is low to none		
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Uses	Mixing		
	Disposable tableware		
	Medical/nursing supplies		
Agency Ratings	FDA 21 CFR 177.1640		
	USP Class VI		
UL File Number	E55470		
Forms	Particle		
Processing Method	Co-extrusion molding		
	Extrusion		
	Thermoforming		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	9.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 - 0.70	%	ASTM D955

Moisture		%	
Heat Distortion - Annealed	93	°C	ASTM D648
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3030	MPa	ASTM D638
Tensile Strength	46.2	MPa	ASTM D638
Flexural Modulus	3100	MPa	ASTM D790
Flexural Strength	93.1	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	101	°C	ASTM D1525
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94

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