

TOTAL Polystyrene Crystal 500W

General Purpose Polystyrene

TOTAL Refining & Chemicals

Message:

Polystyrene 500W: Is a high melt flow crystal polystyrene for high speed injection molding applications. The high flow characteristics make it easy to fill thin wall parts. Additionally, this material exhibits excellent clarity, strength and has a neutral water-white tint.

Application:

Cutlery, tumblers, and containers

Gloss capping material

Blending crystal

Masterbatch carrier

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	Fast molding cycle		
	Good strength		
	High liquidity		
	Definition, high		
Uses	Thin wall parts		
	Mixing		
	Masterbatch		
	Container		
Agency Ratings	FDA 21 CFR 177.1640		
	USP Class VI		
UL File Number	E55470		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	14	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 - 0.70	%	ASTM D955
Moisture		%	
Heat Distortion - Annealed	91	°C	ASTM D648
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3100	MPa	ASTM D638
Tensile Strength	44.1	MPa	ASTM D638
Flexural Modulus	3170	MPa	ASTM D790

Flexural Strength	84.1	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	96.7	°C	ASTM D1525
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94

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