

TOTAL Polystyrene Crystal 500

General Purpose Polystyrene

TOTAL Refining & Chemicals

Message:

TOTAL Petrochemicals 500 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 and strength.

General Information			
Features	Fast Molding Cycle		
	Good Strength		
	High Clarity		
	High Flow		
Uses	Blending		
	Containers		
	Masterbatch		
	Thin-walled Parts		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1640		
	USP Class VI		
UL File Number	E55470		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	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 to 0.70	%	ASTM D955
Moisture	< 0.10	%	
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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Recommended distributors for this material

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