

TOTAL Polystyrene Crystal 535B

General Purpose Polystyrene

TOTAL Refining & Chemicals

Message:

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

General Information	
Features	Good Strength
	High Heat Resistance
Uses	Appliance Components
	Medical/Healthcare Applications
	Packaging
Agency Ratings	EC 1907/2006 (REACH)
	FDA 21 CFR 177.1640
	USP Class VI
UL File Number	E55470
Processing Method	Blow Molding
	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	4.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Moisture	< 0.10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2960	MPa	ASTM D638
Tensile Strength	51.0	MPa	ASTM D638
Flexural Modulus	3100	MPa	ASTM D790
Flexural Strength	96.5	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Annealed)	97.8	°C	ASTM D648
Vicat Softening Temperature	104	°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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