

TOTAL Polystyrene Crystal 585T

General Purpose Polystyrene

TOTAL Refining & Chemicals

Message:

Polystyrene 585T: Is a high molecular weight, low melt flow, high heat crystal polystyrene. This polymer makes superior foam and oriented polystyrene sheet (OPS). The TOTAL process technology consistently produces low residual product for foam and OPS applications.

Application:

Foam disposables

Insulation foam board

OPS disposables

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	Low Residuals		
	High molecular weight		
	Low liquidity		
	Heat resistance, high		
	Disposable		
Uses	Foamed insulation board		
	Foam		
	Sheet		
Agency Ratings	FDA 21 CFR 177.1640		
	USP Class VI		
UL File Number	E55470		
Forms	Particle		
Processing Method	Foam treatment		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	1.6	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 - 0.70	%	ASTM D955
Moisture		%	
Heat Distortion - Annealed	99	°C	ASTM D648
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2960	MPa	ASTM D638
Tensile Strength	52.4	MPa	ASTM D638
Flexural Modulus	2960	MPa	ASTM D790

Flexural Strength	97.9	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	107	°C	ASTM D1525
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94

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