

TOTAL Polystyrene Crystal 585W

General Purpose Polystyrene

TOTAL Refining & Chemicals

Message:

Total Petrochemicals 585 is a high molecular weight, low melt flow, crystal polystyrene. This polymer also makes superior foam and oriented polystyrene sheet (OPS). The TOTAL process technology consistently produces low residual product for foam and OPS applications.

General Information			
Features	High Molecular Weight		
	Low Flow		
Uses	Foam		
	Sheet		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1640		
	USP Class VI		
UL File Number	E55470		
Forms	Pellets		
Processing Method	Foam Processing		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	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 to 0.70	%	ASTM D955
Moisture	< 0.10	%	
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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