TOTAL Polystyrene Crystal 523W

General Purpose Polystyrene

TOTAL Refining & Chemicals

Message:

TOTAL Petrochemicals 523W is a unique high flow, high heat crystal polystyrene. Specially designed for foam applications 523W has a very narrow molecular weight distribution that provides excellent performance in extruded loose fill foam applications.

General Information			
Features	Foamable		
	High Flow		
	High Heat Resistance		
	Narrow Molecular Weight Distribution		
Uses	Foam		
	Foamed Insulation Board		
	Insulation		
	Packaging		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1640		
	USP Class VI		
UL File Number	E55470		
Processing Method	Foam Processing		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	11	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	3030	MPa	ASTM D638
Tensile Strength	44.8	MPa	ASTM D638
Flexural Modulus	3310	MPa	ASTM D790
Flexural Strength	82.0	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45			
MPa, Annealed)	95.6	°C	ASTM D648
Vicat Softening Temperature	106	°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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