

TOTAL Polystyrene Crystal 529W

General Purpose Polystyrene

TOTAL Refining & Chemicals

Message:

TOTAL Petrochemicals 529W is a medium flow crystal polystyrene specially formulated for mar resistance. This easy processing crystal grade minimizes visual defects from ejection and automated part handling. The unique molecular architecture maximizes part strength while maintaining excellent process performance. It is an economical alternative to SAN and polycarbonate.

General Information			
Features	Good Processability		
	Medium Flow		
Uses	Appliance Components		
	Electrical/Electronic Applications		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1640		
	USP Class VI		
UL File Number	E55470		
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)	3.5	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	51.7	MPa	ASTM D638
Flexural Modulus	2960	MPa	ASTM D790
Flexural Strength	96.5	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Annealed)	91.1	°C	ASTM D648
Vicat Softening Temperature	97.8	°C	ASTM D1525
Flammability	Nominal Value	Test Method	
Flame Rating	HB	UL 94	

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