

## Description

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.

## Applications

- Electronics
- Office accessories
- Appliance components

## 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](http://www.UL.com).
- USP Class VI
- Material Safety Data Sheets are available to help customers satisfy their safety needs.

## Properties

Rheological Properties	ASTM Test	Unit	Typical Value
Melt Flow (200°C-5kg)	D-1238	g/10mn	3.5
Thermal Properties			
Heat Distortion - Annealed	D-648	°F	196
Vicat Softening	D-1525	°F	208
Tensile Properties			
Strength	D-638	psi	7,500
Modulus	D-638	psi (10 <sup>5</sup> )	4.3
Flexural Properties			
Strength	D-790	psi	14,000
Modulus	D-790	psi (10 <sup>5</sup> )	4.3
Other Properties			
Density		g/cm <sup>3</sup>	1.04
Linear Shrinkage	D-955	in/in	.004 - .007
Moisture		%	<0.1

