

## Description

TOTAL Petrochemicals 500 is a high melt flow crystal polystyrene for high speed injection molding applications. The high flow characteristics make it easy to fill thin wall parts. Additionally, this material exhibits excellent clarity and strength.

## Applications

- Cutlery, tumblers, and containers
- Gloss capping material
- Blending crystal
- Masterbatch carrier

## 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	14
<b>Thermal Properties</b>			
Heat Distortion - Annealed	D-648	°F	195
Vicat Softening	D-1525	°F	206
<b>Tensile Properties</b>			
Strength	D-638	psi	6,400
Modulus	D-638	psi (10 <sup>5</sup> )	4.5
<b>Flexural Properties</b>			
Strength	D-790	psi	12,200
Modulus	D-790	psi (10 <sup>5</sup> )	4.6
<b>Other Properties</b>			
Density		g/cm <sup>3</sup>	1.04
Linear Shrinkage	D-955	in/in	.004 - .007
Moisture		%	<0.1

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All tests were run under laboratory conditions. ASTM (where applicable) testing procedures. The data are intended as a general guide only and do not necessarily represent results that may be obtained elsewhere. The use of these products must be guided by the user's own methods for selection of proper formulation. TOTAL PETROCHEMICALS USA, INC. disclaims any responsibility for misuse or misapplication of its products. TOTAL PETROCHEMICALS USA, INC. MAKES NO WARRANTY OF MERCHANTABILITY AND THERE IS NO WARRANTY THAT GOODS SUPPLIED SHALL BE FIT FOR ANY PARTICULAR PURPOSE. TOTAL PETROCHEMICALS USA, INC. liability and customer's exclusive remedy for any claims arising out of sales of its products are expressly limited at customer option to replacement of non-performing goods or payment not to exceed the purchase price plus transportation charges thereon in respect to any material which damage is claimed.