

## Description

TOTAL Petrochemicals 830 is a high melt flow, high impact polystyrene specially designed for hard to fill injection molding applications. The material is targeted for large parts, thin wall parts or molds with complex runner and gate systems. The high flow 830 material aids production of stress free parts.

## Applications

Thin wall injection molding, textile spools and medical application, an excellent color concentrate carrier resin.

## 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	13.0
<b>Thermal Properties</b>			
Heat Distortion - Annealed	D-648	°F	189
Vicat Softening	D-1525	°F	200
<b>Impact Properties</b>			
Falling Dart	D-3029	in-lb	120
Izod - notched	D-256	ft-lbs/in	2.1
<b>Tensile Properties</b>			
Strength	D-638	psi	3,300
Modulus	D-638	psi (10 <sup>5</sup> )	3.2
Elongation	D-638	%	45
<b>Flexural Properties</b>			
Strength	D-790	psi	5,700
Modulus	D-790	psi (10 <sup>5</sup> )	3
<b>Other Properties</b>			
Gloss	D-523	60°	94
Density		g/cm <sup>3</sup>	1.04
Linear Shrinkage	D-955	in/in	.004 - .007
Moisture		%	<0.1

