

## 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

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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.

