

Description

TOTAL Petrochemicals 845E is a high impact polystyrene specially designed for the custom sheet market. The polymer produces tough, ductile sheet with a rich matte finish.

Applications

This low gloss resin is an excellent choice for printing and thermoforming applications. The impact and tensile properties are preferred in deep draw and thermoforming applications.

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.
- 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	3.0
Thermal Properties			
Heat Distortion - Annealed	D-648	°F	199
Vicat Softening	D-1525	°F	212
Impact Properties			
Falling Dart	D-3029	in-lb	110
Izod - notched	D-256	ft-lbs/in	2.4
Tensile Properties			
Strength	D-638	psi	3,200
Modulus	D-638	psi (10 ⁵)	2.8
Elongation	D-638	%	55
Flexural Properties			
Strength	D-790	psi	6,200
Modulus	D-790	psi (10 ⁵)	2.8
Other Properties			
Gloss	D-523	60°	63
Density		g/cm ³	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.