

Description

TOTAL Petrochemicals 825E is a high impact polystyrene designed specifically for extrusion/thermoforming. The polymer's balanced properties and processing characteristics make it especially suitable for industrial packaging deep draw thermoforming and custom multilayer sheet extrusion. Over the years, this popular resin has established itself as the industry standard extrusion grade high impact polystyrene.

Applications

Custom sheet extrusion, extrusion thermoforming, printing, and packaging

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	202
Vicat Softening	D-1525	°F	215
Impact Properties			
Falling Dart	D-3029	in-lb	110
Izod - notched	D-256	ft-lbs/in	2.3
Tensile Properties			
Strength	D-638	psi	3,600
Modulus	D-638	psi (10 ⁵)	3.0
Elongation	D-638	%	50
Flexural Properties			
Strength	D-790	psi	6,900
Modulus	D-790	psi (10 ⁵)	3.2
Other Properties			
Gloss	D-523	60°	70
Density / Specific Gravity		g/cm ³	1.04
Linear Shrinkage	D-955	in/in	.004 - .007
Moisture		%	<0.1
Bulk Density (Pellets)		16/ft ³	40
Rubber Content		%	7

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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.