

# TOTAL Polystyrene Impact 825E

High Impact Polystyrene  
TOTAL Refining & Chemicals

Message:

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 standard extrusion grade high impact polystyrene.

General Information	
Uses	Industrial Applications
	Packaging
	Sheet
Agency Ratings	EC 1907/2006 (REACH)
	FDA 21 CFR 177.1640
	USP Class VI
UL File Number	E55470
Forms	Pellets
Processing Method	Extrusion
	Sheet Extrusion
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm <sup>3</sup>	Internal Method
Apparent Density	0.64	g/cm <sup>3</sup>	Internal Method
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Moisture	< 0.10	%	
Rubber Content	7.0	%	
Heat Distortion - Annealed	94	°C	ASTM D648
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2070	MPa	ASTM D638
Tensile Strength	24.8	MPa	ASTM D638
Tensile Elongation (Break)	50	%	ASTM D638
Flexural Modulus	2210	MPa	ASTM D790
Flexural Strength	47.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	120	J/m	ASTM D256
Gardner Impact	12.4	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method

Vicat Softening Temperature	102	°C	ASTM D1525
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value		Test Method
Gardner Gloss (60°)	70		ASTM D523

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#### Recommended distributors for this material

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