

TOTAL Polystyrene Impact 945E

High Impact Polystyrene
TOTAL Refining & Chemicals

Message:

TOTAL Petrochemicals 945E is a super high impact polystyrene designed for applications requiring extra toughness without sacrificing mechanical properties, excellent falling dart impact which, combined with the high gloss, make it a candidate for some ABS applications. This polymer is superior for co-extrusion of high gloss sheet. 945E has unique capabilities for deep draw thermoforming with good sidewall distribution.

General Information	
Features	Good Toughness
	High Gloss
	Ultra High Impact Resistance
Uses	Sheet
Agency Ratings	EC 1907/2006 (REACH)
	FDA 21 CFR 177.1640
	USP Class VI
UL File Number	E55470
Forms	Pellets
Processing Method	Coextrusion
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Moisture	< 0.10	%	
Heat Distortion - Annealed	91	°C	ASTM D648
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2070	MPa	ASTM D638
Tensile Strength	24.1	MPa	ASTM D638
Tensile Elongation (Break)	55	%	ASTM D638
Flexural Modulus	2140	MPa	ASTM D790
Flexural Strength	43.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	170	J/m	ASTM D256
Gardner Impact	18.1	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	97.8	°C	ASTM D1525
Flammability	Nominal Value		Test Method

Flame Rating	HB	UL 94
Optical	Nominal Value	Test Method
Gardner Gloss (60°)	90	ASTM D523

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Recommended distributors for this material

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