

TOTAL Polystyrene Impact 844E

High Impact Polystyrene
TOTAL Refining & Chemicals

Message:

POLYSTYRENE 844E is a high impact polystyrene specially designed for the custom sheet market. This polymer produces tough, ductile sheet with a rich matte finish. 844E is specially formulated to minimize die buildup. This material is especially suitable for printing and thermoforming applications.

General Information			
Uses	Sheet		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1640		
UL File Number	E55470		
Forms	Particle		
Processing Method	Sheet extrusion molding		
	Thermoforming		

Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.0	g/10 min	ASTM D1238

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1930	MPa	ASTM D638
Tensile Strength	22.1	MPa	ASTM D638
Tensile Elongation (Break)	55	%	ASTM D638
Flexural Modulus	1930	MPa	ASTM D790
Flexural Strength	42.7	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	130	J/m	ASTM D256
Dart Drop Impact	12.4	J	ASTM D3029

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	100	°C	ASTM D1525

Flammability	Nominal Value	Test Method	
Flame Rating	HB	UL 94	

Optical	Nominal Value	Test Method	
Gardner Gloss (60°)	63	ASTM D523	

Additional Information			
Heat Distortion, ASTM D648, Annealed: 199°F			

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