

TOTAL Polystyrene Impact 845E

High Impact Polystyrene
TOTAL Refining & Chemicals

Message:

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.

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

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Moisture	< 0.10	%	
Heat Distortion - Annealed	93	°C	ASTM D648
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
Gardner 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

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

