

TOTAL Polystyrene Impact 975E

High Impact Polystyrene
TOTAL Refining & Chemicals

Message:

TOTAL Petrochemicals 975E is a high-impact polystyrene designed for extrusion/thermoforming applications. The good environmental stress crack resistance (ESCR) properties of 975E dictate its use for dairy applications that are subjected to high butterfat. The matte finish of 975E makes it useful in a variety of custom sheet applications. Other features include excellent processability, low gloss and FDA compliance.

General Information	
Features	Good Processability
	High ESCR (Stress Crack Resist.)
	Low Gloss
Uses	Lids
	Liners
	Sheet
Agency Ratings	EC 1907/2006 (REACH)
	FDA 21 CFR 177.1640
	USP Class VI
UL File Number	E55470
Forms	Pellets
Processing Method	Extrusion
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	Internal Method
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	2.8	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Moisture	< 0.10	%	
Heat Distortion - Annealed	92	°C	ASTM D648
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1590	MPa	ASTM D638
Tensile Strength	20.0	MPa	ASTM D638
Tensile Elongation (Break)	55	%	ASTM D638
Flexural Modulus	1860	MPa	ASTM D790
Flexural Strength	40.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	120	J/m	ASTM D256
Gardner Impact	11.9	J	ASTM D3029

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	98.9	°C	ASTM D1525
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value		Test Method
Gardner Gloss (60°)	60		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

