

# TOTAL Polystyrene Impact 960E

High Impact Polystyrene

TOTAL Refining & Chemicals

## Message:

TOTAL Petrochemicals 960E is a high-impact polystyrene designed for extrusion/thermoforming applications that require exceptional resistance to attack from fats and oils. This environmental stress crack resistance (ESCR) material is used for lids and containers for salad dressings, gravies, and high fat dairy products.

General Information	
UL YellowCard	E55470-245456
Features	High ESCR (Stress Crack Resist.) Oil Resistant
Uses	Containers Food Containers Lids
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 <sup>3</sup>	
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.8	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	17.2	MPa	ASTM D638
Tensile Elongation (Break)	70	%	ASTM D638
Flexural Modulus	1650	MPa	ASTM D790
Flexural Strength	33.1	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	160	J/m	ASTM D256
Gardner Impact	12.4	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°)	57		ASTM D523

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#### Recommended distributors for this material

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