

TOTAL Polystyrene Impact 935E

High Impact Polystyrene
TOTAL Refining & Chemicals

Message:

TOTAL Petrochemicals 935E is a super high impact polystyrene exhibiting exceptional toughness for sheet and thermoforming applications. This polymer is an excellent choice for cups, food packaging, custom sheet and coextrusion applications when extremely high ductility is crucial.

General Information	
Features	Ductile
	Good Toughness
Uses	Cups
	Food Packaging
	Sheet
Agency Ratings	EC 1907/2006 (REACH)
	FDA 21 CFR 177.1640
	USP Class VI
UL File Number	E55470
Forms	Pellets
Processing Method	Coextrusion
	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)	3.7	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	1720	MPa	ASTM D638
Tensile Strength	19.3	MPa	ASTM D638
Tensile Elongation (Break)	60	%	ASTM D638
Flexural Modulus	1790	MPa	ASTM D790
Flexural Strength	37.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	130	J/m	ASTM D256
Gardner Impact	15.8	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°)	80		ASTM D523

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