



TotalEnergies

TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

Polystyrene 980E

Technical Data Sheet
Polystyrene - Impact
Produced in the United States

Description

Polystyrene 980E is a high-impact polystyrene designed with high heat resistance and gloss for compounding and sheet applications.

Application:

- Compounding
- Extrusion
- Thermoforming

General Information:

- This material complies with FDA requirements as described in 21 CFR §177.1640.
- Material Safety Data Sheets are available to help customers satisfy their safety needs.

Characteristics

	Method	Unit	Typical Value
Rheological Properties			
Melt Flow (200°C-5kg)	D-1238	g/10mn	2.0
Mechanical Properties			
Falling Dart	D-3029	in-lb	140
Izod - notched	D-256	ft-lbs/in	3.0
Tensile Strength	D-638	psi	3,300
Tensile Modulus	D-638	psi (10 ⁵)	2.8
Elongation	D-638	%	40
Flexural Strength	D-790	psi	7,700
Flexural Modulus	D-790	psi (10 ⁵)	3.0
Thermal Properties			
Vicat Softening	D-1525	°F	220
Other Physical Properties			
Gloss	D-523	60°	90
Density		g/cm ³	1.04
Linear Shrinkage	D-955	in/in	.004 - .007
Moisture		%	<0.1

Polystyrene

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