

I. Stern 870E

High Impact Polystyrene

I. STERN & CO. INC.

Message:

Polystyrene 870E - High Impact Polystyrene Extrusion Grade

Features

Good processing characteristics

Excellent Toughness and environmental stress cracking

Applications

Thermoformed containers and lids for food packaging

Custom extruded sheet

Profiles

General Information			
Features	Good Processability		
	Good Toughness		
	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
Uses	Food Packaging		
	Lids		
	Profiles		
	Sheet		
Agency Ratings	FDA 21 CFR 177.1640		
UL File Number	E220962		
Processing Method	Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR)	4.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	21.0	MPa	ASTM D638
Tensile Elongation (Break)	50	%	ASTM D638
Flexural Modulus	1750	MPa	ASTM D790
Flexural Strength (Yield)	35.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	85.0	°C	ASTM D648
Vicat Softening Temperature	98.9	°C	ASTM D1525
Flammability	Nominal Value		Test Method

Flame Rating		UL 94
1.50 mm	HB	
3.00 mm	HB	

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