

I. Stern 550

High Impact Polystyrene

I. STERN & CO. INC.

Message:

- Polystyrene 550 - High Impact Polystyrene
- Features
- Good Process Properties
- Excellent Toughness and environmental stress cracking
- Applications
- Structural Foam
- Displays
- Small appliances

General Information			
Features	Good Processability		
	Good Toughness		
	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
Uses	Appliances		
	Displays		
	Foam		
Agency Ratings	FDA 21 CFR 177.1640		
UL File Number	E220962		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR)	10	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	14.5	MPa	ASTM D638
Tensile Elongation (Break)	50	%	ASTM D638
Flexural Modulus	1800	MPa	ASTM D790
Flexural Strength (Yield)	27.6	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)	81.1	°C	ASTM D648
Vicat Softening Temperature	89.4	°C	ASTM D1525
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm	HB		
3.00 mm	HB		

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