

# Prime Clear-X 200

High Impact Polystyrene  
Primex Plastics Corporation

Message:

This material was designed and developed specifically for rigid packaging markets. Prime Clear-X 200 offers a remarkable combination of toughness, clarity, stiffness, tear resistance, low stress whitening, cost and good hinge properties.

Applications:  
The above features make this product suitable for retail clam shell packaging. Applications include electronics, toys, pharmaceutical, medical, personal care and consumer goods. It is rated for medical tray applications (USP Class VI-500) and meets FDA regulation 21 CFR 177.1640.

Processing:  
For the fabricator, Prime Clear-X 200 is easily and economically processed using conventional processing techniques. Options for part denesting include use of a silicone bath during sheet production or an internal denest additive.

Finishing:  
Options for the joining and bonding of Prime Clear-X 200 include heat sealing, solvent bonding, ultrasonic welding and adhesive bonding. RF Welding is not recommended. Trim tooling should be sharp and clear of burrs for a clean cut. Dull trim tooling will result in "fuzz" trim. This product can be sterilized by three types of processes; Gamma, EtO, and E-Beam.

Please contact your Primex Plastics representative for more information on finishing, fabricating, or the thermoforming process.

Colors, Textures and Capabilities:  
Prime Clear-X 200 is compatible with HIPS or GP carriers so it may be color matched to meet your specific requirements. Textures are available but smooth is the primary surface.

General Information	
Features	Bondability
	E-beam Sterilizable
	Ethylene Oxide Sterilizable
	Good Adhesion
	Good Stiffness
	Good Tear Strength
	Good Toughness
	High Clarity
	High Heat Resistance
	High Impact Resistance
	High Tensile Strength
	Radiation Sterilizable
	Salt Water/Spray Resistant
	Stress Whitening Resistant
	Ultrasonic Weldable
Uses	Consumer Applications
	Electrical/Electronic Applications
	Medical/Healthcare Applications
	Packaging
	Personal Care
	Pharmaceuticals
	Rigid Packaging

Support Trays

Toys

Agency Ratings	FDA 21 CFR 177.1640 USP Class VI 500		
Appearance	Clear/Transparent Colors Available		
Forms	Sheet		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.03	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.40 to 0.70	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 0.762 mm)	31.7	MPa	ASTM D638
Tensile Elongation (Break, 0.762 mm)	30	%	ASTM D638
Flexural Modulus (0.762 mm)	1720	MPa	ASTM D790
Flexural Strength (0.762 mm)	48.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Instrumented Dart Impact (Total Energy)	9.15	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, 0.762 mm)	76.7	°C	ASTM D648
Vicat Softening Temperature	93.3	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Haze	3.0 to 4.0	%	ASTM D1003

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#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

