



Prime Impax 250 is a formulated High Impact Polystyrene that provides quality toughness, stiffness and impact strength. Prime Impax 250 is designed to meet a wide variety of product applications and is one of the most versatile, inexpensive materials we supply. It is our standard thermoforming grade of High Impact Polystyrene.



PRIME IMPAX 250

Prime Impax 250	High	Avg.
Impact Strength	*	
Low Temperature Impact Strength		*
Tensile Strength	*	
Flexural Modulus	*	
Heat Deflection Temperature		*

Property	Test Method	Value	Unit
Specific Gravity	D-792	1.04	g/cc
Melt Flow@200°C/5g	D-1238	2.5	g/10min
Tensile @ Yield	D-638	2900	psi
Flexural Modulus	D-790	275,000	psi
Elongation @ Failure	D-638	70	%
Hardness, Rockwell	D-785	75	M-Scale
Notched Izod @ 73°F	D-256	2.1	ft-lb/in
HDT @ 264 psi	D-648	183	°F
Vicat Softening Point	D-1525	210	°F

Complies with UL 94 HB at thickness >.060 in.
 Complies with FDA Regulation 21 CFR 177.1640
 Complies w/USP Class VI, can be sterilized by Gamma Radiation or ETO

Applications:

Prime Impax 250 is FDA compliant and USP Class VI compliant. With its ease of processing, it provides trays with the rigidity and parallelism need for good sealing. It is able to withstand Gamma Radiation and ETO sterilization.

Finishing:

Prime Impax 250 can be fabricated by drilling, routing, sawing, die cut and/or laser cutting. Mechanical fasteners may be used as well laaser cutting. We provide Prime Impax 250 in sheet or roll stock and are capable of holding extremely tight tolerances by either square cutting or slitting.

Processing:

Since it is an amorphous thermoplastic material it is relatively easy to process in extrusion and thermoforming. The mold shrink is .003 - .006 in./in. It can be formed on aluminum, ceramic, fiberglass, epoxy and even wood tools.

Colors, Textures and Capabilities

Prime Impax 250 is available in natural and white. It is offered in thicknesses of .008 -.125 and widths of up to 53".with a M/M surface.

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

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Call: 1(866) 437-7427

Email: info@polymershapes.com

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