Prime Impax 250

High Impact Polystyrene

Primex Plastics Corporation

Message:

Prime Impax 250 is a formulated High Impact Polystyrene that povides 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.

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.

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.

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

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.

General Information			
Features	Amorphous		
	Good Processability		
	Good Stiffness		
	Good Toughness		
	High Impact Resistance		
	High Tensile Strength		
	Medium Rigidity		
Agency Ratings	FDA 21 CFR 177.1640		
	USP Class VI		
Appearance	Colors Available		
Forms	Sheet		
Processing Method	Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	2.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30 to 0.60	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	20.0	MPa	ASTM D638
Tensile Elongation (Break)	70	%	ASTM D638
Flexural Modulus	1900	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8			
MPa, Unannealed)	83.9	°C	ASTM D648
Vicat Softening Temperature	98.9	°C	ASTM D1525
Flammability	Nominal Value		Test Method
Flame Rating ¹ (0.991 mm)	НВ		UL 94
NOTE			
1.	>0.039 in		

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Recommended distributors for this material

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