

Prime ABS Weather-X 400

Acrylonitrile Butadiene Styrene

Primex Plastics Corporation

Message:

Weather-X 400 is an ABS substrate capped with a weatherable film. The substrate properties will depend on the material specified for use. Primex offers substrates of Prime, Utility and or Wide Spec material. This product is ideal for exterior and interior thermoformed parts requiring high gloss appearance and retention as well as scratch resistance. Primex also offers this product with a low gloss appearance.

Applications:

Some applications for this product include Bathtubs and Surrounds, Spas, Countertops, Wall Panels, Doors, Windows, Siding, Luggage carriers, Tractor Roofs, Dashboards and Sanitary Ware.

Processing:

Prime Weather-X 400 will process the same as ABS, depending the grade that is used for the substrate. It is suggested that slightly cooler oven temperatures on the side of the film be utilized.

Finishing:

Parts made from Prime ABS 400 may be joined with machine screws, bolts, nuts, and washers, rivets and spring steel fasteners. Thread cutting or threadforming screws is an economical means of securing the joints. Formed parts may be bonded with Methylene Chloride if maximum impact strength is not required. Press and snap techniques as well as sonic welding are other methods of bonding this product.

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

Colors, Textures and Capabilities:

Colors are readily available in white, off-white, brown and black. Specific color matches are available upon request. Prime Weather-X 400 is available in thicknesses of .060 - .400 in. and widths up to 115".

General Information	
Features	Good Weather Resistance
	High Gloss
	High Heat Resistance
	High Impact Resistance
	High Scratch Resistance
	High Tensile Strength
	Ultrasonic Weldable
Uses	Automotive Instrument Panel
	Bathroom Accessories
	Building Materials
	Luggage
	Reinforced Panels
	Sanitary Products
	Windows & Doors
Agency Ratings	FDA 21 CFR 181.32
Appearance	Black
	Brown
	Colors Available
	Off-White
	White

Forms	Sheet		
Processing Method	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	1.7	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	102		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	35.2	MPa	ASTM D638
Flexural Modulus	1860	MPa	ASTM D790
Flexural Strength	55.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	120	J/m	
23°C	340	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed)	92.2	°C	ASTM D648
Optical	Nominal Value		Test Method
Gardner Gloss (60°)	90		ASTM D523

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