

Prime ABS Weather-X 401

Acrylonitrile Butadiene Styrene + Acrylic (PMMA)

Primex Plastics Corporation

Message:

Prime Weather-X 401 is a thin gauge extruded acrylic (PMMA) protective cap film that can be laminated to plastic substrates, such as ABS, HIPS, and PMMA. Its exceptional UV protection extends the indoor and outdoor durability of the base sheet. Extruded acrylic film also protects the substrate from yellowing and fading. Its consistent high gloss outshines the finish of brown acrylic films. This tough film also provides abrasion resistance, mildew and fungus resistance, as well as, protection from chemical spillage.

Applications:

Some applications for this product include components for RV's, travel trailers & mobile homes, bath & shower enclosures, sinks, spas, dashboards & consoles for construction & farm equipment, housing for marine craft & snowmobiles, and appliance parts.

Processing:

Prime Weather-X 401 will process the same as ABS, depending on 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 Weather-X 401 may be joined With machine screws, bolts, nuts, and washers, rivets and spring steel fasteners. Thread cutting or thread-forming 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 eather-X 401 is available in thicknesses of .060-.400 in. and widths up to 72".

General Information	
Features	Fungus Resistant
	Good Abrasion Resistance
	Good UV Resistance
	Good Weather Resistance
	High Gloss
	High Heat Resistance
	High Impact Resistance
	High Tensile Strength
Uses	Appliance Components
	Automotive Instrument Panel
	Bathroom Accessories
	Building Materials
	Construction Applications
	Marine Applications
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)	0.80	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	44.9	MPa	ASTM D638
Flexural Modulus	1760	MPa	ASTM D790
Flexural Strength	61.3	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed)	80.0	°C	ASTM D648
Optical	Nominal Value		Test Method
Gardner Gloss (60°)	95		ASTM D523
Additional Information	Nominal Value		Test Method
Weatherability	F2 for UV Exp.		UL 746C

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