

# ACCUFORM SIGNS

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## PRODUCT INFORMATION GUIDE

### DESCRIPTION: Aluminum

Aluminum alloy metal sheet has high strength and excellent corrosion resistance. Printed image, using UV compounds, is protected by UV-light blocking clear polyester bonded over the image. The polyester film maintains optical clarity while protecting the subsurface image from weather conditions, moisture, chemical splash, and abrasions.

<u>PRODUCT DATA</u>	<u>VALUE</u>	<u>UNIT</u>	<u>TEST METHOD</u>
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### ALUMINUM

#### *Physical*

Alloy	3105-H18	ASTM B209
Thickness	.040 / .080	mil (micron)

#### *Mechanical Properties*

Tensile Strength	31	ksi
Yield Strength	28	ksi
Elongation	3	% in 2 in
Ultimate Sheer Strength	17	ksi
Modulus of Elasticity	10	ksi x 10(3)

### CHEMICAL RESISTANCE

Ammonium Hydroxide	Resistant
Hydrofluoric Acid	Non-Resistant
Hydrogen Peroxide	Limited-Resistant
Nitric Acid	Limited-Resistant
Salt Water	Resistant
Sodium Hydroxide	Resistant
Sulfuric Acid	Limited-Resistant
Xylene	Limited-Resistant

<u>PRODUCT DATA</u>	<u>VALUE</u>	<u>UNIT</u>	<u>TEST METHOD</u>
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### CLEAR POLYESTER FILM

#### *Physical*

Film thickness	2.0 (51)	mil (micron)	ASTM D 3652
Adhesive thickness	0.9 (23)	mil (micron)	

Dimensional stability	0.0	%	On aluminum panel At 160 F (71 C) for 24 hours
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### *Adhesion*

Adhesion from:

Stainless Steel	69 (759)	oz/in (N/m)	ASTM D 903
Acrylic	74 (814)	oz/in (N/m)	(modified for 72 hr
Glass	67 (737)	oz/in (N/m)	dwell time)
Expected shear	100+	hours	ASTM D 3654 (1 hr
			Dwell, 1 sq in, 4 lb
			load)
Tack	590	gm/sq cm	ASTM D 2979

### CHEMICAL RESISTANCE

Anti-Freeze	Resistant
Bleach	Resistant
Diesel Fuel	Resistant
Gasoline	Resistant
Hydraulic Fluid	Resistant
Isopropyl Alcohol	Resistant
Limonene	Non-Resistant
Methyl Ethyl Ketone	Non-Resistant
Mineral Spirits	Resistant
Salt Water	Resistant
Sodium Hydroxide	Resistant
Sulfuric Acid	Limited-Resistant
Water	Resistant

ASTM 24 hour dwell time

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Expected Exterior Life	5	years
Service Temperature Range	-40 to 302 (-40 to 150)	deg. F (C )

### PERFORMANCE AND SUITABILITY

Weather-O-Meter tests were conducted on the specific material to accelerate the effects of extended exposure to varied weather and UV light conditions. The results were minimal discoloration and changes in optical appearance while maintaining its general properties. Accuform Signs tests products year-round in on-site weather-testing centers, as well as at contract product testing centers. The descriptive information and performance data provided shall be used as a guide. Furnishing such information is to assist you in determining the suitability of the material for the purpose for which it is purchased.

### NOTE

All values of test data and results shown are averages for general information only. Information is provided by Accuform Signs' suppliers of the raw materials used by Accuform Signs to manufacture product. Information results are recognized analytical methods performed by third party, independent laboratory. Accuform Signs makes no independent representation or warranties, expressed or implied, and assumes no liability in connection with the use of this information. To meet specific design and performance criteria please contact Accuform Signs to develop specifications for specific product applications. As such, Accuform Signs' products are sold with the understanding that the buyer will test them in actual use to determine for

themselves their adaptability to their intended uses.

## WARRANTY

For the expected exterior life, Accuform Signs guarantee to the buyer that our products are free from defects in material and workmanship, limiting our obligation under this warranty to replacement of the product if we are satisfied it was defective at the time of sale. This warranty does not extend to any persons obtaining the product from the Buyer. This warranty is in lieu of any other warranty, express or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose, and of any other obligations or liability on our part. Under no circumstances will we be liable for any loss, damage, expense, incidental or consequential damages of any kind arising in connection with the use, or inability to use, our products.