



Grade 1120

Corrosion-Resistant Panels

- Fume Hood Liners
- Chemical Storage Cabinets
- Wall Surfaces
- UL® Classified
- High Strength
- Bright White Finish – Requires No Painting

Grade 1120 is an asbestos-free fiberglass-reinforced thermoset resin sheet. It is UL classified with flame spreads of 15 (U.S. calculation) and 20 (Canadian calculation).

This material has very low water absorption characteristics and also has good splash and spill resistance to acids, weak bases and aliphatic hydrocarbons.

Panels can be manufactured in sizes of 36" x 72" and 49.5" x 96.5". Sheet thickness is available from 1/16" to 1/2".





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	UNIT	ASTM/UL Number	Typical Values
General Information			
Standard Color			White
Mechanical Properties			
Tensile Strength	Psi	D638	7,800
Tensile Modulus	Psi X 10 ⁶	D638	1.7
Flexural Strength	Psi	D790	22,100
Flexural Strength @ 130°C	Psi	D695	13,100
Compressive Strength	Psi	D732	33,100
IZOD Impact Strength (notched)	ft. lb./in.	D256	8.9
Water Absorption	% by wt.	D570	0.4
Specific Gravity	–	D792	1.81
Flame & Smoke Data			
Flame Spread – U.S. calculation		E84	15
Flame Spread – Canadian Calculation		E84	20
Smoke Developed		E84	over 500
Thermal Properties			
Coefficient of Thermal Expansion	In/In/°C x 10 ⁻⁵	D696	2
Thermal Conductivity	BTU/HR/Ft ² /In/°F	C177	1.9
UL Recognition File Number	–	–	R9599

A 2" square test specimen is prepared for each reagent to be tested. Approximately 25 ml. of each reagent is measured into a small beaker. A test panel is placed over the top of each beaker. After 24 hours of exposure, the panels are removed, cleaned and evaluated.

Rating:

1 = No Effect

No detectable change in color or gloss.

2 = Excellent

Slight detectable change in color or gloss.

3 = Good

A clearly observable change in appearance.

4 = Fair

Objectionable change in appearance.

5 = Failure

Pitting, cratering or erosion of surface.

Reagent	Rating	Reagent	Rating
37% Hydrochloric Acid	2	Benzene	1
33% Sulfuric Acid	2	Xylene	1
77% Sulfuric Acid	1	Toluene	1
96% Sulfuric Acid	1	Gasoline	2
90% Formic Acid	2	Dichloro Acetic Acid	3
20% Nitric Acid	1	Dimethyl Formamide	2
30% Nitric Acid	1	Ethyl Acetate	1
70% Nitric Acid	3	Amyl Acetate	1
48% Hydrofluoric Acid	2	Acetone	1
85% Phosphoric Acid	1	Chloroform	1
60% Chromic Acid	1	Carbon Tetrachloride	1
98% Acetic Acid	1	Phenol	1
Equal Parts #2 & #8	3	Cresol	2
20% Amonium Hydroxide	1	Formaldehyde	1
10% Sodium Hydroxide	1	Trichlorethylene	1
20% Sodium Hydroxide	1	Ethyl Ether	1
40% Sodium Hydroxide	1	Furfural	1
Sodium Hydroxide Flake	1	Methylene Chloride	1
Sodium Sulfide	1	Mono Chloro Benzene	1
Zinc Chloride	2	Dioxane	1
Tincture of Iodine	4	Methyl Ethyl Ketone	1
Silver Nitrate	2	Acid Dichromate	1
Methyl Alcohol	1	Hydrogen Peroxide	1
Ethyl Alcohol	1	Napthalene	1
Butyl Alcohol	1		

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