



Grade 1125

Corrosion-Resistant Panels

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

Grade 1125 corrosion-resistant panels are ideal for applications where resistance to both flame, and the splash or spill of laboratory chemicals is important.

These asbestos-free, fiberglass-reinforced polyester resin sheets offer a particularly low smoke generation when exposed to flame. Grade 1125 is UL® classified with a flame-spread rating of 25.

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

Panels can be manufactured in sizes of 3 x 6 feet and 4 x 8 feet. Sheet thickness is available from 1/16" to 1/2".



Grade 1125

	Unit	ASTM/UL Number	Typical Values	Metric Units	Typical Values
General Information					
Part Number			1125		
Standard Color			White		
Mechanical Properties					
Tensile Strength	Psi	D638	7,500	Mpa	51.7
Tensile Modulus	Psi X 10 ⁶	D638	1.7 x 10 ⁶	Mpa	11,700
Flexural Strength	Psi	D790	21,000	Mpa	145
Flexural Strength @ 130°C	Psi	D695	12,900	Mpa	89
Compressive Strength	Psi	D732	32,500	Mpa	224
IZOD Impact Strength (notched)	ft. lb./in.	D256	8.4	J/cm	4.5
Flame & Smoke Data					
Oxygen Test	% O ₂	D2863	35	% O ₂	35
Tunnel Test		E84/UL723			
Flame Spread – U.S. calculation		E84	25		25
Flame Spread – Canadian Calculation		E84	20		20
Smoke Developed		E84	115		115
Physical Properties					
Water Absorption	% by wt.	D570	0.4	% by wt.	0.4
Specific Gravity	–	D792	1.8		1.81
Coefficient of Thermal Expansion	In/In/°C x 10 ⁻⁵	D696	2		2
Thermal Conductivity	BTU/HR/Ft ² /In/°F	C177	1.9	W/cm ² /cm/°C	2.74 x 10 ³
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	1
90% Formic Acid	2	Dichloro Acetic Acid	2
20% Nitric Acid	2	Dimethyl Formamide	1
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	2
Equal Parts #2 & #8	3	Cresol	1
20% Amonium Hydroxide	1	Formaldehyde	1
10% Sodium Hydroxide	1	Trichlorethylene	1
20% Sodium Hydroxide	1	Ethyl Ether	1
40% Sodium Hydroxide	1	Furfural	3
Sodium Hydroxide Flake	1	Methylene Chloride	1
Sodium Sulfide	1	Mono Chloro Benzene	1
Zinc Chloride	2	Dioxane	1
Tincture of Iodine	3	Methyl Ethyl Ketone	1
Silver Nitrate	2	Acid Dichromate	2
Methyl Alcohol	1	Hydrogen Peroxide	1
Ethyl Alcohol	1	Napthalene	1
Butyl Alcohol	1		



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