



Chemical and Stain Resistance Testing

General Chemical Resistance

Products	Dilute Acids (less than 30%)	Concentrated Acids (30% or more)	Weak Alkalis	Strong Alkalis	Chlorinated Solvents Aldehydes & Ketones Esters
Glasbord Products	G to E	G to E	G	E	G to E
Sequentia Products					
Key E=excellent, G=good, F=fair (test before using), P=poor, not recommended					

Resistance to Specific Chemicals

GENERAL NOTES

- Ratings are based on a combination of visual observations, and mechanical strength test results.
- All testing was done at 77°F +/- 10°F. Performance ratings are not necessarily valid outside of that temperature range.
- Test ratings are based on white material; non-white panels could show additional visual changes.
- Test was run per Crane Composites product development procedure #8125: surface chemical resistance. In this procedure the chemicals are exposed to the surface of the panel for 7 days.

RATING KEY

- E (Excellent): Suitable for use in most exposure conditions.
- G (Good): Probably suitable for use; testing under specific exposure conditions is suggested.
- F (Fair): Possibly unsuitable for use; testing under specific exposure conditions is recommended.
- P (Poor): Unsuitable for use in most exposure conditions.
- C: Color change
- NT: Not tested

Chemical	Glasbord Panels	Sequentia Panels	Sanigrig Ceiling Grid System	General Comments
Acetic Acid, concentrated	E	P	E	Caused Sequentia panels to turn yellow and erode
Acetic Acid, 5%	E	E	E	
Ammonium Hydroxide, concentrated	E	C	C	Caused Sequentia and Sanigrig to turn yellow
Ammonium Hydroxide, 10%	C	C	C	Caused all to turn yellow
Aniline	P ¹	P	C	Caused all to turn yellow
Bleach Solution	C	C	E	Caused panels to turn yellow
Citric Acid, 10%	E	E	C	Caused Sanigrig to turn yellow
Detergent Solution	C	E	E	Caused panels to turn yellow
Distilled Water	E	E	E	
Ethyl Acetate	P ¹	P	E	
Ethyl Alcohol, 95%	C	G	NT	Caused panels to turn yellow
Ethyl Alcohol, 50%	G ¹	E	NT	Caused Sequentia panels slight reduction in strength
Formaldehyde	E	E	E	
Heptane	F	G	E	Caused Sequentia panels slight reduction in strength
Hydrochloric Acid, 10%	E	E	E	
Hydrogen Peroxide, 3%	C	E	E	Caused panels to turn yellow
Isoctane	G ¹	G	E	Caused Sequentia panels slight reduction in strength
Lactic Acid, 10%	E	E	E	
Mineral Oil	E	E	G	Sanigrig absorbed some oil
Nitric Acid, 40%	E	G	C	Sanigrig turned slight yellow/blue
Nitric Acid, 10%	C	E	C	Sanigrig turned slight yellow/blue Caused Sequentia panels slight reduction in strength

Chemical	Glasbord Panels	Sequentia Panels	Sanigrig Ceiling Grid System	General Comments
Oleic Acid	G ¹	E	G	Sanigrig absorbed some oil
Olive Oil	E	E		Sanigrig absorbed some oil
Potassium Iodide Solution, 10%	E	C	G	Sanigrig II turned red Sequentia turned yellow
Soap Solution	E	E	C	
Sodium Chloride Solution, 10%	P ¹	E	E	Caused panels to turn yellow
Sodium Chloride Solution, 60%	P	G	E	Caused Sequentia panels slight reduction in strength
Sodium Hydroxide Solution, 10%	P	NT	E	Caused panels to turn yellow
Sodium Hydroxide Solution, 1%	P	NT	E	Caused panels to turn yellow
Sodium Hydroxide Solution, 4-6%	E	NT	E	
Sulfuric Acid, 30%	G ¹	G	NT	Caused Sequentia panels slight reduction in strength
Sulfuric Acid, 3%	G ¹	E	E	
Toluene	G ¹	P	E	Caused panels to turn yellow
Transformer Oil	G ¹	NT	NT	Sanigrig absorbed some oil
Turpentine	G ¹	E	G	

Stain Resistance to Food and Miscellaneous Products

KEY

- Unaffected = wipes off easily with damp cloth and mild soap; no color or surface change
- Superficial = stain removes easily with water and/or mild abrasive
- Considerable = stain not completely removed

TESTING INFORMATION

1. ASTM D2299 | test stain resistance of applied coating
2. ASTM D1308 | test stain resistance of a product's natural surface

Stain	ASTM D2299 (Test #1)	ASTM D2299 (Test #2)	
	Glasbord Panels	Glasbord Panels	Sequentia Panels
Blood (beef)	Superficial	Superficial	Superficial
Brown Show Polish	Considerable	Considerable	Considerable
Butter	Unaffected	Unaffected	Unaffected
Crayon	Superficial	Superficial	Superficial
Mustard	Unaffected	Superficial	Superficial
Oil (crankcase)	Superficial	Superficial	Superficial
Potatoes (white)	Unaffected	Unaffected	Unaffected
Red Cabbage	Unaffected	Unaffected	Unaffected
Tea	Unaffected	Unaffected	Unaffected
Tomato Acid	Unaffected	Unaffected	Unaffected

www.FRP.com | 1.800.435.0080 | 1.815.467.8666 (fax) | salesbp@cranecomposites.com

Crane Composites is the manufacturer of Glasbord, Sequentia, Sanigrig II and a variety of other fiberglass reinforced plastic (FRP) composite wall panels. Inspired by the Kemlite tradition, Crane Composites has over 55 years of experience in Commercial Building Products and is a recognized industry leader in FRP applications.



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