

Synthesis® Cabinetry Collection by Midmark

Test Data Sheet

Chemical resistance of finish to acids, solvents, bases and salts

DESCRIPTION

1. Cabinet Base/Shelf/Steel Drawers
2. Drawer and Door Front
3. Drawer and Door Pull
4. Drawer

MATERIAL TESTED

- Paint
- Polymer-Covered Front
- Polystyrene
- Polystyrene

Testing of these parts consisted of soaking a 1/2" x 1/2" specimen in the listed chemicals for a period of one hour. The specimens were then removed from the chemical bath, rinsed with cold water and washed with detergent and warm water at 150°F (65°C). Surfaces of the samples were then examined under 100 foot candles of illumination for changes in gloss, discoloration or softening of surface film.

#	CHEMICAL	(1)	(2)	(3)	(4)
1.	37% Hydrochloric Acid	A	A	A	A
2.	20% Hydrochloric Acid	A	A	A	A
3.	10% Hydrochloric Acid	A	A	A	A
4.	70% Sulfuric Acid	A	A	A	A
5.	25% Sulfuric Acid	A	A	A	A
6.	30% Nitric Acid	A	A	A	A
7.	10% Nitric Acid	A	A	A	A
8.	75% Phosphoric Acid	A	A	A	A
9.	25% Phosphoric Acid	A	A	A	A
10.	98% Acetic Acid	B	A	A	A
11.	50% Acetic Acid	A	A	A	A
12.	Ethyl Alcohol	B	A	A	A
13.	Butyl Alcohol	A	A	A	A
14.	Methyl Alcohol	A	A	A	A
15.	Ethyl Acetate	B	A	A	D
16.	Ethyl Ether	B	A	A	D
17.	Methyl Ethyl Ketone (MEK)	B	A	A	D
18.	Toluene	A	A	A	D
19.	Acetone	B	A	A	C
20.	Benzene	A	A	A	D
21.	Carbon Tetrachloride	A	A	A	D
22.	37% Formaldehyde	A	A	A	C
23.	Gasoline	A	A	A	C
24.	Naphtha	A	A	A	B
25.	Kerosene	A	A	A	B
26.	Xylene	B	A	A	D
27.	Glycerin	A	A	A	C
28.	Furfural	B	B	A	C
29.	40% Sodium Hydroxide	A	A	A	A
30.	10% Sodium Hydroxide	A	A	A	A
31.	28% Ammonium Hydroxide	A	A	A	A
32.	40% Potassium Hydroxide	A	A	A	A
33.	10% Potassium Hydroxide	A	A	A	A

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#	CHEMICAL	(1)	(2)	(3)	(4)
34.	Saturated Zinc Chloride	A	A	A	A
35.	Saturated Sodium Chloride	A	A	A	A
36.	Saturated Sodium Sulfide	A	A	A	A
37.	Saturated Sodium Carbonate	A	A	A	A
38.	88% Formic Acid	ND	ND	A	A
39.	5% Hydrogen Peroxide	ND	ND	A	A
40.	Common Bleach	A	ND	A	A

KEY

- A. No change in gloss, no discoloration or softening of surface
- B. Slight change in gloss, discoloration or temporary softening of surface
- C. Definite change in gloss, discoloration or softening of surface resulting in permanent distortion of original appearance
- D. Severe attack on surface

ND. Not done

ADHESION + FLEXIBILITY

Three paint test samples were subjected to the Cross Hatch Adhesion Testing - ASTM D3359 - 17 Method B. The samples were scribed with two sets of eleven parallel lines, 1 mm apart and intersecting each other at 90°, thus forming a grid of 100 squares. Each scribe line was deep enough to cut completely through the coating. The resulting area was brushed lightly with a soft brush, checked for depth of cuts, and then tape was applied to the area to meet the ASTM requirement. The tape was seated using a pencil eraser and then pulled off at an angle as close to 180° as possible. The grid area was then examined and rated according to Cross Hatch Adhesion Testing - ASTM D3359 - 17 Method B. This procedure was repeated in two other locations on each sample.

Result: tape adhesion rating of 5B (no paint removed)

HARDNESS

Three paint test samples were subjected to the ASTM D3363-92a, film hardness by pencil test. Pencil leads, honed to a circular diameter, were pushed across the surface of each sample at a 45° angle using enough pressure to crumble the lead. The distance of the resulting mark was a minimum of 0.25 inches. The pencil lead push test was repeated, starting with 5H lead, then with successively softer lead, until the surface was (1) not gouged and (2) not scratched. The pencil hardness at which each condition was observed is reported in the test data.

Result: Gouge rating of 2H
Scratch rating of F

CLEANING

Regular care should be maintained by wiping with a damp cloth or sponge using a mild soap and water solution. The drawer may also be removed for cleaning.

QUESTIONS

For assistance, please call the Medical Customer Experience department at 1-844-856-1233, option 3 for cabinetry.



CARB 93120.2 Phase 2 Compliant

Midmark is an ISO 13485 and ISO 9001 Certified Company. Certain products not included. See the complete list at: midmark.com/ISO

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007-10157-00 Rev. A1 (9/19)