SEFA
Scientific Equipment & Furniture Association

SEFA 8.0 CABINET SURFACE FINISH TESTS

Performed for: Greenply Industries Ltd.**
15 Narain Manzil, Barakhamba Road
New Delhi, India

**As of March 16, 2015 Doing business as:
Greenlam Industries Limited
1501-1505, Narain Manzil
23 Barakhamba Road
New Delhi, 110001 India

Item Tested: High Pressure Decorative Compact Laminate – Chemical Resistant Grade, 12.70mm (1/2") Thickness

Reference: Scientific Equipment & Furniture Association (SEFA)
Laboratory Furniture Casework, Shelving and Tables Recommended Practices
SEFA 8-PL 2010

Section 8.0 Cabinet Surface Finish Tests

Results:

8.1 Chemical Spot Test
See detailed results on attached form.

Zero Level 3 conditions permitted Rating: ☒ Pass ☐ Fail

There are zero (0) Level 3 conditions evident

8.2 Boiling Water Resistance Test Rating: ☒ Pass ☐ Fail

There is no visible effect due to the hot water, 1050 ml@91-94° C in 5 minutes

8.3 Ball Impact Resistance Test Rating:

Rating: ☐ Pass ☐ Fail

There are no fractures (cracks, concentric circles or chips) resulting from the impact of the steel ball up to and including a height of ten (10) feet.

8.6 Dart Impact Resistance Test Rating:

Rating: ☐ Pass ☐ Fail

There are no fractures (cracks, concentric circles or chips) resulting from the impact of the 25g - dart up to and including a height of ten (10) feet.

_____ Ph.D _____
Signature Date

Tests performed by: Dr. Neil M. Ball Title: Environmental Analyst

State of Wisconsin
County of Sheboygan

This document was signed before me on _____/_____/_____.

_____
Jennifer Beimel – Notary Expires 4-21-2013

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CHEMICAL RESISTANCE TESTING – 8.1

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SEFA 8-PL 2010

Date of Test:	Sample Description:	Type of Material Coated:	Coating Type:
7-19-11	High Pressure Decorative Compact Laminate – 12.70mm (1/2") Thickness	Chemical Resistance Grade Compact Laminate	Acrylic

Rating Scale: Level 0 - No Detectable Change
Level 1 - Slight Change in Color or Gloss
Level 2 – Slight Surface Etching or Severe Staining
Level 3- Pitting, Cratering, Swelling, Erosion of Coating, Obvious & Significant Deterioration.

#	Chemical	Rating	Comments
1	Amyl Acetate	0	
2	Ethyl Acetate	0	
3	Acetic Acid 98%	0	
4	Acetone	0	
5	Acid Dichromate 5%	0	
6	Butyl Alcohol	0	
7	Ethyl Alcohol	0	
8	Methyl Alcohol	0	
9	Ammonium Hydroxide 28%	0	
10	Benzene	0	
11	Carbon Tetrachloride	0	
12	Chloroform	0	
13	Chromic Acid 60%	0	
14	Cresol	0	
15	Dichloroacetic Acid	0	
16	Dimethylformamide	0	
17	Dioxane	0	
18	Ethyl Ether	0	
19	Formaldehyde 37%	0	
20	Formic Acid 90%	0	
21	Furfural	0	
22	Gasoline	0	
23	Hydrochloric Acid 37%	0	

24	Hydroflouric Acid 48%	0	
25	Hydrogen Peroxide 30%	0	
26	Tincture of Iodine	2	Severe staining of finish (yellow)
Test Performed By:	Dr. Neil M. Ball		Date: 7-19-2011

CHEMICAL RESISTANCE TESTING – 8.1

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#	Chemical	Rating	Comments
27	Methyl Ethyl Ketone	0	
28	Methylene Chloride	0	
29	Monochlorobenzene	0	
30	Naptha VM&P	0	
31	Nitric Acid 20%	0	
32	Nitric Acid 30%	0	
33	Nitric Acid 70%	0	
34	Phenol 90%	0	
35	Phosphoric Acid 85%	0	
36	Silver Nitrate, Saturated	0	
37	Sodium Hydroxide 10%	0	
38	Sodium Hydroxide 20%	0	
39	Sodium Hydroxide 40%	0	
40	Sodium Hydroxide, Flake	0	
41	Sodium Sulfide, Saturated	0	
42	Sulfuric Acid 33%	0	
43	Sulfuric Acid 77%	0	
44	Sulfuric Acid 96%	1	Slight change in gloss
45	Sulfuric Acid 77% and Nitric Acid 70%, equal parts	0	
46	Toluene	0	
47	Trichloroethylene	0	

48	Xylene	0	
49	Zinc Chloride, Saturated	0	

Test Performed By: Dr. Neil M. Ball Date: 7-19-11