TEST REPORT: 7191067130-CHM13-LSM

Date: 27 AUG 2013

Client's Ref:

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SUBJECT

Chemical Resistance Testing of "Compact Laminates"

CLIENT

Crown Laminates Pvt. Ltd.
6, Patel Avenue, 1st floor,
Nr. Gurudwara, S.G. Highway
Ahmedabad 380059
Gujarat, India

Attn: Arpita Patel

SAMPLE SUBMISSION / TEST DATE

15 Aug 2013 / 19 Aug 2013

SAMPLE DESCRIPTION

1 set of Compact Laminates was received

Sample Reference

Name	:	Royal Crown Hi-Density Laminates; Laboratory Grade
Size	:	1220 mm x 2440 mm x 1 mm
Qty	:	55

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METHOD OF TEST

Scientific Equipment & Furniture Association (SEFA)
SEFA 8 -1999
Laboratory Furniture, Casework, Shelving and Tables Recommended Practices
Clause 8.1 Chemical Spot test

The above chemical test was conducted in accordance with SEFA 8 - 1999. Small quantity of test chemical is applied on the surface of the laminates and is covered to restrict evaporation.

The test parameters are described as follows:

Temperature	:	23 ± 2 °C
Relative Humidity	:	50 ± 5 %
Duration	:	1 hour

After the test, the surface is washed with detergent and naptha, and rinse with distilled water. The surface is then dried with a clean cloth before visual inspection and evaluation after 24 hours .

The evaluation of the effect on the surface is expressed in accordance with the following rating scale

Level	Description
0	No detectable change
1	Slight change of gloss or colour
2	Slight surface etching or severe staning
3	Pitting, cratering, swelling, or erosion of coating. Obvoius and significant deterioration

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RESULTS

No	Group	%	Royal Crown Hi-Density Laminates; Laboratory Grade
	Acid		
1	Acetic Acid	98	0
2	Dichromate Acid	5	0
3	Chromic Acid	60	0
4	Formic Acid	90	0
5	Hydrochloric Acid	37	0
6	Hydrofluoric Acid	48	0
7	Nitric Acid	20	0
8	Nitric Acid	30	0
9	Nitric Acid	70	0
10	Phosphoric Acid	85	0
11	Sulphuric Acid	33	0
12	Sulphuric Acid	77	0
13	Sulphuric Acid	96	0
14	Sulphuric Acid 77% : Nitric Acid 70%	1:1	1
	Bases		
15	Ammonia Hydroxide	28	0
16	Sodium Hydroxide	10	0
17	Sodium Hydroxide	20	0
18	Sodium Hydroxide	40	0
19	Sodium Hydroxide flake	-	0
	Halogens		
20	Tincture of Iodine	-	1
	Salts		
21	Sodium Sulfide	saturated	0
22	Silver Nitrate	saturated	0
23	Zinc Chloride	saturated	0
	Organic Chemicals		
24	Amyl Acetate	-	0
25	Benzene	-	0
26	Cresol	-	0
27	Dimethylformamide	-	0
28	Formaldehyde	37	0
29	Furfural	-	2
30	Gasoline	-	0
31	Hydrogen Peroxide	3	0
32	Methyl Ethyl Ketone	-	0
33	Phenol	90	0
34	Xylene	-	0

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No	Group	%	Royal Crown Hi-Density Laminates; Laboratory Grade
	Solvents		
35	Acetone	-	0
36	Butyl Alcohol	-	0
37	Carban Tetrachloride	-	0
38	Chloroform	-	0
39	Dichloro Acetic Acid	-	0
40	Ethyl Ether	-	0
41	Dioxane	-	0
42	Ethyl Alcohol	-	0
43	Ethyl Acetate	-	0
44	Methyl Alcohol	-	0
45	Methylene Chloride	-	0
46	Mono Chlorobenzene	-	0
47	Naphthalene	-	0
48	Toluene	-	0
49	Trichloroethylene	-	0

Remarks

The chemical mention in the table include chemicals/concentrations listed by SEFA 8 (Scientific Equipment and Furniture Association)

LEOW SIONG MING
TECHNICAL EXECUTIVE

for DR LI SIHAI
AVP / SENIOR CHEMIST
COATINGS & INDUSTRIAL CHEMICALS
CHEMICAL & MATERIALS

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July 2011