

# TEST REPORT: 7191025103-CHM12-02-LSM-CR1

Date: 03 FEB 2012

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## SUBJECT

Chemical Resistance Testing of "MAICA Compact Laminates"

## CLIENT

Maica Laminates Sdn Bhd  
5100, Lorong Mak Mandin 5,  
Mak Mandin Industrial Estate,  
13400 Butterworth  
Penang, Malaysia

Attn: Mr. Kow Cheng Fung

## SAMPLE SUBMISSION / TEST DATE

31 Oct & 22 Dec 2011 / 11 Nov 2011 - 13 Jan 2012

## SAMPLE DESCRIPTION

3 sets of "MAICA Compact Laminates" were received

### Sample Reference

Colour : Black  
Code : Nacht  
Size : 16 mm (H) x 100 mm (W) x 100 mm (L)  
Qty : 106

Colour : White  
Code : Schnee  
Size : 16 mm (H) x 100 mm (W) x 100 mm (L)  
Qty : 111

Colour : Grey  
Code : Asche  
Size : 16 mm (H) x 100 mm (W) x 100 mm (L)  
Qty : 107



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**METHOD OF TEST**

BS EN 438-2:2005

High-pressure decorative laminates (HPL). Sheets based on thermosetting resins (usually called laminates).

Determination of properties

Clause 26: Resistance to Staining

The above chemical test was conducted in accordance with BS EN 438-2:2005. 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

Duration : 24 hours

After the test, the surface is washed with distilled water and dried with a clean cloth before visual inspection and evaluation.

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

Rating	Description
5	No Visible Change
4	Slight Change of gloss and / or colour only visible at certain viewing angles
3	Moderate marked change of gloss and / or colour
2	Marked change of gloss and / or colour
1	Surface distortion and / or blistering



**RESULTS**

No.	Chemical	%	Rating		
			Nacht Black	Schnee White	Asche Grey
<b>Acid</b>					
86	Acetic Acid	98	5	5	5
87	Sulphuric Acid	96	4	4	4
<b>Salts</b>					
88	Silver Nitrate	saturated	5	3	5
89	Iron (III) Chloride	10	5	5	5
90	Sodium Chloride	10	5	5	5
<b>Organic Chemicals</b>					
91	Hydrogen Peroxide	30	5	5	5

LEOW SIONG MING  
TECHNICAL EXECUTIVE

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

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July 2011

