



**CLIENT:** Lion Chemtech  
5141 McComber Road  
Buena Park, CA 90621

Attn.: Daniel Kim

**Test Report No:** 781236-01

**Date:** January 11, 2007

**SAMPLE ID:** Solid Surface Material

**DATE OF RECEIPT:** October 18, 2006

**TESTING PERIOD:** November 07, 2006 - January 11, 2007

**AUTHORIZATION:** Client's Letter

**TESTS REQUESTED:** The submitted sample was tested in accordance with the procedures outlined for the following:

ASTM D1499-99 Carbon Arc Exposure  
NEMA LD3-2000 3.3 Light Resistance Color Stability  
NEMA LD3-2000 3.5 Boiling Water Resistance  
NEMA LD3-2000 3.6 High Temperature Resistance  
NEMA LD3-2000 3.8 Ball Impact Resistance

**TEST RESULTS:** Continued on the following pages

**PREPARED BY:**

**SIGNED FOR AND ON BEHALF OF  
SGS U.S. TESTING COMPANY INC.**

**Robert Strzelecki, Technician  
Building Materials Lab**

**Dominick Lepore, Manager  
Building Materials**

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RESULTS:

**CARBON ARC EXPOSURE**  
ASTM D1499-99

<u>Sample</u>	<u>Blisters</u>	<u>Crazing</u>	<u>Color Change</u>	<u>Cracking</u>	<u>Dulling</u>
1	No Effect	No Effect	Slight Effect	No Effect	Slight Effect
2	No Effect	No Effect	Slight Effect	No Effect	Slight Effect

**Note:** Test period: 1000 hrs

Test conditions: 102 minutes light and 18 minutes light and water

No Effect – no change in color or surface finish.

Slight Effect – a change in color or surface finish only visible at certain angles and directions

Moderate Effect – a change in color or surface finish visible at all angles and directions, but does not notably alter the original condition of the specimen

Severe Effect – a change in color or surface finish that markedly alters the original condition of the specimen



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**RESULTS:**

**LIGHT RESISTANCE / COLOR STABILITY**  
NEMA LD3 2000 3.3

<u>Sample</u>	<u>Blisters</u>	<u>Crazing</u>	<u>Color Change</u>	<u>Cracking</u>	<u>Dulling</u>
1	No Effect	No Effect	Moderate Effect	No Effect	No Effect
2	No Effect	No Effect	Moderate Effect	No Effect	No Effect

**Note:** Test period: 1000 hrs

No Effect – no change in color or surface finish.

Slight Effect – a change in color or surface finish only visible at certain angles and directions

Moderate Effect – a change in color or surface finish visible at all angles and directions, but does not notably alter the original condition of the specimen

Severe Effect – a change in color or surface finish that markedly alters the original condition of the specimen



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**RESULTS:**

**BOILING WATER RESISTANCE**  
NEMA LD3 2000 3.5

<u>Sample</u>	<u>Blisters</u>	<u>Crazing</u>	<u>Whitening</u>	<u>Cracking</u>	<u>Dulling</u>
1	No Effect	No Effect	No Effect	No Effect	No Effect
2	No Effect	No Effect	No Effect	No Effect	No Effect
3	No Effect	No Effect	No Effect	No Effect	No Effect

**Note:**

No Effect – no change in color or surface finish.

Slight Effect – a change in color or surface finish only visible at certain angles or directions

Moderate Effect – a change in color or surface finish visible from all angles and directions, but does not appreciably alter the original condition of the specimen

Severe Effect – a change in color or surface finish which obviously and markedly alters the original condition of the specimen



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**RESULTS:**

**HIGH TEMPERATURE RESISTANCE**  
NEMA LD3 2000 3.6

<u>Sample</u>	<u>Blisters</u>	<u>Crazing</u>	<u>Whitening</u>	<u>Cracking</u>	<u>Dulling</u>
1	Moderate Effect	No Effect	No Effect	No Effect	Slight Effect
2	Moderate Effect	No Effect	No Effect	No Effect	Slight Effect
3	Moderate Effect	No Effect	No Effect	No Effect	Slight Effect

**Note:**

No Effect – no change in color or surface finish.

Slight Effect – a change in color or surface finish only visible at certain angles or directions

Moderate Effect – a change in color or surface finish visible from all angles and directions, but does not appreciably alter the original condition of the specimen

Severe Effect – a change in color or surface finish which obviously and markedly alters the original condition of the specimen



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RESULTS:

**BALL IMPACT RESISTANCE**

NEMA LD3 2000 3.8

<u>Specimen</u>	<u>Impact Resistance</u>
	in
1	> 95
2	> 95
3	> 95
<b>Avg.</b>	<b>&gt; 95</b>

**Note:** Lab Environment: Temperature 23° C, Humidity 50 %  
Specimen Conditioning: 48 hours minimum  
Stainless Steel Ball: Ø 1.5", 224 ±3 gm

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End of Report