

TMC

Technical Micronics Control, Inc.

ENVIRONMENTAL TEST REPORT

Prepared for:

**Line-X
1862 Sparkman Drive
Huntsville, AL 35816**

Attention: Stephen Gaskill

Prepared by:

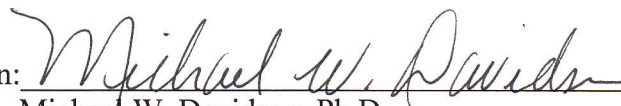
**TMC, INC.
210 Wynn Drive
Huntsville, Alabama 35807**

August 9, 2010

Analytical Report No: 313621-1/12

Analysis performed by: P. Schrader

Approved for distribution:


Michael W. Davidson, Ph.D.
Laboratory Manager

INTRODUCTION

Line -X requested analysis of twelve (12) panels on April 5, 2010. The analysis consisted of Salt Spray Test Method ASTM B117 (3000 Hrs.). The samples were identified as follows:

<u>Log #</u>	<u>Quantity</u>	<u>Description</u>
-1 & -2	2	G-XS430 40mil
-3 & -4	2	G-XS430 w/ XPM 40 mil
-5 & -6	2	MS-XS100 w/ XPM 120 mil
-7 & -8	2	MS-XS350 w/ XPM 120 mil
-9 & -10	2	MS-XPM 3 – 4 mil
-11 & 12	2	MS-SF515 3 mil

ENVIRONMENTAL TESTS AND EVALUATION

Salt Spray Test Method per ASTM B117. Evaluation per ASTM D1654 Procedure B. The panels shall be evaluated for corrosion spots, blisters, and any other types of failures that may occur discounting rust staining, run down, or corrosion within ½ inch of the edges. Covering the sample with a grid of ½ inch squares with a total of 102 squares (25.5 square inches), the sample is rated according to the following table:

Areas Failed:	Rating Number
No Failure	10
1	9
2-4	8
4-6	7
7-10	6
11-20	5
21-30	4
31-40	3
41-55	2
56-75	1
Over 75	0

RESULTS

The panels were placed in the chamber at 9:00 A.M. on 04-12-10 at an angle of 30°. The panels were evaluated once every 168 hours (beginning at 161 hours). All panels were left in the chamber until they failed with a rating of 0, or for a total of 3,000 hours.

EVALUATION

The panels received the following ratings:

-1	G-XS430 40mil	10 @ 3,000 hours
-2	G-XS430 40mil	10 @ 3,000 hours
-3	G-XS430 w/ XPM 40 mil	10 @ 3,000 hours
-4	G-XS430 w/ XPM 40 mil	10 @ 3,000 hours
-5	MS-XS100 w/ XPM 120 mil	10 @ 3,000 hours
-6	MS-XS100 w/ XPM 120 mil	10 @ 3,000 hours
-7	MS-XS350 w/ XPM 120 mil	10 @ 3,000 hours
-8	MS-XS350 w/ XPM 120 mil	10 @ 3,000 hours
-9	MS-XPM 3 – 4 mil	0 @ 2,009 hours
-10	MS-XPM 3 – 4 mil	3 @ 3,000 hours
-11	MS-SF515 3 mil	0 @ 161 hours
-12	MS-SF515 3 mil	0 @ 161 hours