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***Evaluating EcoCorr Film manufactured in fourth quarter of 2006***

**Background:** Long term stability and corrosion inhibition tests are sought on EcoCorr Film. A two year old sample of EcoCorr Film sample was obtained for this testing. EcoCorr film sample was manufactured in the fourth quarter of 2006.

**Purpose:** Determine corrosion inhibition performance and mechanical properties of two year old EcoCorr Film

**Method:** Razor Blade Test  
 VIA Test  
 SO<sub>2</sub> Test  
 ASTM D 1748-83

**Materials:** Razor Blade Test Kit  
 VIA Test Kit  
 SO<sub>2</sub> Test Kit  
 EcoCorr Film manufactured in fourth quarter of 2006 (2.5-3.0 mil)  
 VpCI-126 Film (3.0 mil), Lot #24034, manufactured first quarter, 2007  
 LDPE Control film (3 mil)

**Procedure:** The above tests were performed according to standard procedures for each.

**Results:**

Razor Blade Test

Material	Panel #1	Panel #2	Panel #3
EcoCorr Film (2.5-3.0 mil)	Pass	Pass	Pass
VpCI-126 Film (3.0 mil)	Pass	Pass	Pass
Control Film (3.0)	Fail	Fail	Fail

VIA Test

Material	Plug #1	Plug #2	Plug #3
EcoCorr Film (2.5-3.0 mil)	Grade 3	Grade 3	Grade 3
VpCI-126 Film (3.0 mil)	Grade 3	Grade 3	Grade 3
Control Film (3.0)	Fail	Fail	Fail



SO<sub>2</sub> Test

Material	Panel #1	Panel #2	Panel #3
EcoCorr Film (2.5-3.0 mil)	Grade 4	Grade 4	Grade 4
VpCI-126 Film (3.0 mil)	Grade 4	Grade 4	Grade 4
Control Film (3.0)	Fail	Fail	Fail

ASTM D 1748-83

Material	Time until corrosion (Days)
EcoCorr Film (2.5-3.0 mil)	> 15*
VpCI-126 Film (3.0 mil)	> 15*
Control Film (3.0)	4





\* No corrosion observed after fifteen days, testing still in progress.

**Conclusion:**

A roughly two year old sample of EcoCorr Film provides excellent corrosion inhibition. Further testing is being conducted this particular EcoCorr film, and test results will be on final test report.

**Project #:** 08-085-1125 (preliminary testing)

### VIA Test Grades (Grade 2 or 3 are passing)

		
Grade 0:	Blind test No corrosion inhibiting effect	
Grade 1:	Blind test Minute corrosion inhibiting effect	
Grade 2:	Blind test Medium corrosion inhibiting effect	
Grade 3:	Blind test Good corrosion inhibiting effect	

### *SO<sub>2</sub> Grades (Grade 3 and 4 are passing):*

- Grade 0- Extensive corrosion covering 25% or more of panel surface
- Grade 1- Moderate corrosion covering 10-25% of panel surface
- Grade 2- Slight corrosion covering 5-10% of panel surface
- Grade 3- Very slight corrosion covering 0-5% of panel surface
- Grade 4- No visible corrosion on panel surface