



Evaluating ProPack VCI film

Background: Ivana Radic, Cortec Corporation, submitted sample of Propack VCI polyethylene-based film for evaluation.

Purpose: Evaluate the contact, barrier and vapor corrosion inhibitor protection offered by ProPack VCI film.

Method: Razor Blade Test

VIA Test

SO₂ Test

Materials: Razor Blade Test Kit

VIA Test Kit

SO₂ Test Kit

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

Results:

Razor Blade Test

Material	Carbon Steel			Copper		
	Panel #1	Panel #2	Panel #3	Panel #1	Panel #2	Panel #3
ProPack VCI Film	Fail	Fail	Pass	Fail	Fail	Fail
Cortec VpCI-126 Blue Film*	Pass	Pass	Pass	Pass	Pass	Pass
Control	Fail	Fail	Fail	Fail	Fail	Fail

*Typical results for Cortec VpCI-126 Blue film

VIA Test

Material	Plug #1	Plug #2	Plug #3
ProPack VCI Film	Grade 1	Grade 0	Grade 1
Cortec VpCI-126 Blue Film*	Grade 3	Grade 3	Grade 3
Control	Fail	Fail	Fail

*Typical results for Cortec VpCI-126 Blue film

SO₂ Test

	Carbon Steel		
	Panel #1	Panel #2	Panel #3
ProPack VCI Film	Grade-2	Grade-3	Grade-3
Cortec VpCI-126 Blue Film*	Grade-3	Grade-3	Grade-3
Control	FAIL	FAIL	FAIL

	Copper		
	Panel #1	Panel #2	Panel #3
ProPack VCI Film	Grade-2	Grade-2	Grade-1
Cortec VpCI-126 Blue Film*	Grade-3	Grade-3	Grade-3
Control	FAIL	FAIL	FAIL


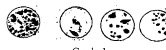
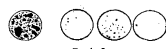

*Typical results for Cortec VpCI-126 Blue film

Conclusion: ProPack VCI film failed to provide vapor and contact corrosion protection and provided insufficient barrier protection.

Project #: 05-010-2012

Estimated Cost of Project: 3 hours

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	

SO₂ 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

To: Boris Miksic

Ivana Radic Borsic

From: Snjezana Mikolic

Date: 05/31/12