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Background:	Two samples of Daubert film were submitted for testing. The customer that is using these films is making transmission parts for the automotive industry. However, they are getting rust on the edge of their parts. The films were purchased from Apac, and were submitted to determine if they provide any corrosion protection.
Samples Received:	<ul> <li><u>The following samples were received on 7-6-18 in good condition</u>:</li> <li>Green Daubert film, 2mil</li> <li>Blue Daubert film, 4mil</li> </ul>
Method:	VIA Test, CC-027 Razor Blade Test, CC-004* Nitrite/Nitrate Test* *The tests marked are not covered under Cortec Laboratories, Inc. ISO 17025 Scope of Accreditation
Materials:	VIA test kit (testing jars and lids, steel plugs, 320grit sandpaper) Copper and Carbon Steel panels, SAE 1010 (for razor blade testing) Glycerol (lot #Q10A018) Methanol, ACS grade (lot #071417B) Nitrite/Nitrate Test Strips (lot #HC719626) Plain polyethylene film (control film) 40°C oven (oven #5)
Procedure:	The testing was conducted according to standard procedures for each test. Note- the VIA test was conducted using two strips of sample per jar (1" X 6" per strip)

**Results**: The following results were found:

## **Razor Blade Test- Carbon Steel Panels**

Sample	Panel #1	Panel #2	Panel #3	End Result
Green Daubert Film	Fail	Fail	Fail	Fail
Blue Daubert Film	Fail	Fail	Fail	Fail
Control	Fail	-	-	Fail

Razor Blade Test- Copper Panels				
Sample	Panel #1	Panel #2	Panel #3	End Result
Green Daubert Film	Fail	Fail	Fail	Fail
Blue Daubert Film	Fail	Fail	Fail	Fail
Control	Fail	-	-	Fail

VIA Test				
Sample	Plug #1	Plug #2	Plug #3	End Result
Green Daubert Film	Grade 1	Grade 1	Grade 0	Fail
Blue Daubert Film	Grade 1	Grade 1	Grade 0	Fail
Control	Grade 0	-	-	Fail

## **Results**:

The following results were found:

Nitrite/Nitrate Test Strips		
Sample	Results	
Green Daubert Film	Does not contain any nitrite or nitrate	
Blue Daubert Film	Does not contain any nitrite or nitrate	

## Photo from the VIA test:



## Interpretations:

The two submitted Daubert film samples do not provide sufficient corrosion protection to pass the VIA or razor blade testing.

Grade 3