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Evaluation of Blue Film

From: Cortec Laboratories, Inc.
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Project #: 23-056-1125.bis

Results reported by:

A handwritten signature in black ink, appearing to read "L. Stone".

Luke Stone
Technical Service Engineer

Results approved by:

A handwritten signature in black ink, appearing to read "P. Solntsev".

Pavlo Solntsev, Ph.D.
Laboratory Manager



Background:

Our customer was presented with an opportunity to acquire a cheaper alternative to VpCI-126 film. This competing blue film is manufactured by Future PolyTech. A sample of the PolyTech blue film has been submitted for evaluation.

Sample Received:

1. Future PolyTech Blue Film

Method:

- Cortec VIA, CC-027
- Razor Blade Test, CC-004*

*The test marked is not covered under Cortec Laboratories, Inc. ISO 17025 Scope of Accreditation

Materials:

- VIA test kit (testing jars with lid apparatus, steel plugs, 120, and 320 grit sandpaper)
- Buehler Plug Grinder, Ecomet V Polisher (manual turn table plug grinder)
- Steel panels, SAE 1008/1010 (Q-Panel, S-35 DG, 3"x5"x0.032")
- Copper panels
- Glycerol (lot #R28H033)
- Methanol, ACS grade
- Scale I (0.0g)
- Lint-free cotton wipes
- DI water

Procedure:

The VIA and razor blade tests were conducted according to standard procedure.

Results:

Table 1: Cortec VIA

Sample	Plug #1	Plug #2	Plug #3	End Result
Sample 1	Grade 1	Grade 1	Grade 0	Fail
Control	Grade 0	--	--	Fail

Table 2: Razor Blade - Steel

Sample	Panel #1	Panel #2	Panel #3	End Result
Sample 1	Fail	Fail	Fail	Fail
Control	Fail	--	--	Fail

Table 3: Razor Blade - Copper

Sample	Panel #1	Panel #2	Panel #3	End Result
Sample 1	Pass	Pass	Pass	Pass
Control	Fail	--	--	Fail

Photos:



Figure 1: Razor Blade – Steel Results

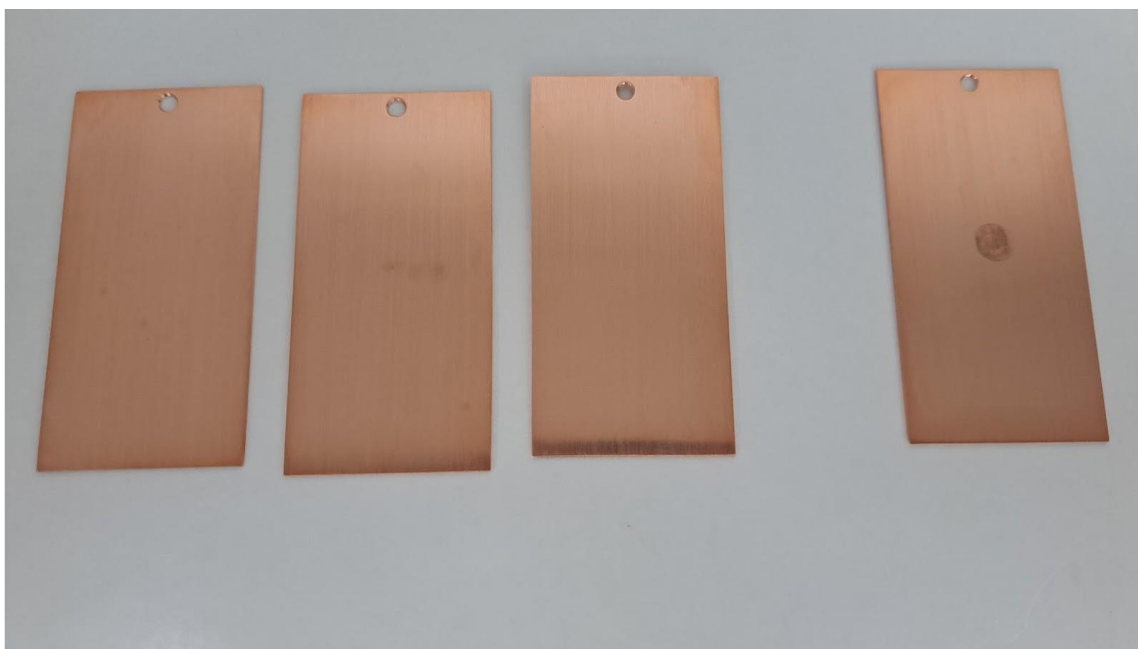


Figure 2: Razor Blade – Copper Results



Figure 3: Cortec VIA Results

Interpretations:

The film sample from Future PolyTech did not provide sufficient protection to steel in either VIA or Razor Blade tests, but it did provide protection to copper in Razor Blade.