

Low Outgassing Test Report

Testing Site: Pacific Testing Laboratories, Inc. 24950 Avenue Tibbitts, Valencia

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Date: September 13, 2013

Specification: ASTM E595

Testing: Outgas test

Test Sample: XF-528, 1 mil white coated polyimide film, 1 mil solvent acrylic

adhesive

Requirement: ASTM E 595-07, Paragraph 1.5:

The criteria used for the acceptance and rejection of materials shall be determined by the user and based upon specific component and system requirements. Historically, a total mass loss (TML) of 1.00% and collected volatile condensable material (CVCM) of 0.10% have been used as screening levels for rejection of spacecraft materials.

<u>Test Method</u>: The outgas test was performed in a vacuum environment of less than 5×10^{-5} torr according to ASTM E 595-07, for a duration of 24 hours at 125°C. The TML, CVCM and the amount of water vapor recovered (WVR) were measured after the test.

<u>Results</u>: The following are the results for the XF-528, 1 mil white polyimide label material.

Sample	TML %	CVCM %	WVR %
XF-528	0.81	0.02	0.71

<u>Remarks</u>: The XF-528 has passed the requirements of ASTM E 595-07 for outgas testing.