TEST REPORT

In Account With SPECIALTY SILICONE PRODUCTS CORPORATE TECHNOLOGY PARK 3 McCrea Hill Road Ballston Spa, NY 12020 Attn: Sarah Lewis	Date April 15, 2020	Page 1 of 3 Pages	
	W.O. Number 67994	Specification ASTM E595	
	P.O. No. 0029363	Received 04-02-20	

IDENTIFICATION: Four (4) sample materials were submitted for Outgas Testing in accordance with

ASTM E595. The test samples were identified as follows:

SSP502-60Vo w/ PSA
 SSP502-60Vo w/o PSA
 SSP502-40Vo w/ PSA
 SSP502-40Vo w/o PSA

SPECIFICATION: ASTM E595.

REFERENCE: Purchase Order Number 0029363.

TESTING : Outgas Testing.

SUMMARY: The test results, reported herein, are submitted for customer evaluation.

Respectfully submitted,

PACIFIC TESTING LABORATORIES, INC.

Hans Shin

Reviewed by,

Laboratory Director

Casie Giblin Materials Engineer

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OUTGAS TESTING

REFERENCE **ASTM E595.**

REQUIREMENT: ASTM E595, 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.

The Outgas Test was performed in a vacuum environment of less than 5 X 10⁻⁵ torr TEST METHOD

according to ASTM E595, for a duration of 24 hours, at 125°. The TML, CVCM, and the amount of Water Vapor Recovered (WVR) were measured after the test.

RESULTS The following tables list the results of the testing:

Table 1: Outgas test results.

Sample	TML	CVCM	WVR
	(%)	(%)	(%)
SSP502-60Vo w/ PSA	0.21	0.08	0.02
SSP502-60Vo w/o PSA	0.19	0.09	0.01
SSP502-40Vo w/ PSA	0.24	0.12	0.02
SSP502-40Vo w/o PSA	0.18	0.09	0.01

Table 2: Testing observation results for SSP502-60Vo w/ PSA.

Observations			
Visible Condensate	Yes	Opaque	No
Percent Covered	100%	Interference Fringes	No
Thin	Yes	Colored Fringes	No
Heavy	No	Sample appearance after test	No change
Transparent	Yes		No change

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RESULTS : (continued)

Table 3: Testing observation results for SSP502-60Vo w/o PSA.

Observations			
Visible Condensate	Yes	Opaque	No
Percent Covered	100%	Interference Fringes	No
Thin	Yes	Colored Fringes	No
Heavy	No	Sample appearance after test	No shance
Transparent	Yes		No change

Table 4: Testing observation results for SSP502-40Vo w/ PSA.

Observations			
Visible Condensate	Yes	Opaque	No
Percent Covered	100%	Interference Fringes	No
Thin	No	Colored Fringes	No
Heavy	Yes	Sample appearance after test	No abanga
Transparent	Yes		No change

Table 5: Testing observation results for SSP502-40Vo w/o PSA.

Observations			
Visible Condensate	Yes	Opaque	No
Percent Covered	100%	Interference Fringes	No
Thin	Yes	Colored Fringes	No
Heavy	No	Sample appearance after test	No alsonos
Transparent	Yes		No change

REMARKS: The test results, reported herein, are submitted for customer evaluation.