

Procedural Review Voting Sheet

2013 Cycle 1

REGION: **China**

COMMITTEE: PV

EVENT: **SOLARCON China 2013**

DATE OF MEETING: 2013/3/18

PLACE OF MEETING: Kerry Hotel, Shanghai, China

COMMITTEE CO-CHAIRS: Guangchun Zhang/Canadiansolar, Jun Liu/CESI

SEMI STAFF: Kris Shen

A&R Voter: Name/Company

Date: 200X/MM/DD

I. Document Number & Title

Document 5385	Document Title New Standard: Test Method for the Content of Vinyl Acetate (VA) in Ethylene-Vinyl Acetate (EVA) Applied in PV Modules Using Thermal Gravimetric Analysis (TGA)
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II. Tally (Staff to fill in)

Voting Tally: **As-cast tally after close of voting period**

A minimum of 60% of the voting interests that have voting members within the technical committee must return votes. (Regulations ¶ 9.6.1)

	Return		Distribution		Return Rate	
Yellow	87	÷	144	=	60.4%	>=60%
Lilac & Others	52					

Total Vote	139					
Reject	1					
Accept	33					

A&R

Not approved

	Reason:
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III. Rejects

Reject 1 (Sam Samuels/DuPont)

Negative	Referenced Section	*TF/Committee to fill in if necessary	
	Reason	<p>Many years ago, we investigated a TGA-titration technique as the primary method to calibrate our FTIR methods for composition. It is similar to the plain TGA method, with the addition of trapping the off-gases and titrating the acetic acid evolved from the polymer decomposition. We found, however, that saponification was more accurate and gave better precision than TGA. Although I was not involved in this early work, I have been told that the higher the VA content, the worse the precision and accuracy became for the TGA-based methods. With TGA methods there is also the issue of accounting for weight losses due to any additives present in the EVA formulation which may decompose or volatilize at the ESA decomposition temperatures (e.g., crosslinkers (peroxides), stabilizers (antioxidants, UV stabilizers), adhesion promoters (silanes)). An FTIR method calibrated to saponification would have much greater precision and accuracy than the proposed TGA method.</p>	
	Withdrawal	X	No withdrawal made GO TO "Related"
			Withdrawal document received by staff on XXXX GO TO "Final" → (A)
Related	Motion and Reason		"Related" is mutually agreed upon.
			*This motion can be appended to the motion for Persuasive (See Persuasive Section)
			Negative is related (needs over 1/3 votes to pass)
			Negative is not related (needs 2/3 or more votes to pass)
		Reason	XXXX
	Motion by/2nd by	Name (Company)/Name (Company)	
	Discussion		
	Result of Vote (check ONE)	XX-XX	
		[Negative is related] > 1/3	GO TO "Persuasive"
		[Negative is not related] < 2/3	
		2/3=< [Negative is not related]	GO TO "Final" → (B)
su siv	Motion and Reason		Negative is related and persuasive (needs over 1/3 votes to pass)
		X	Negative is related and not persuasive (needs 2/3 or more votes to pass)

		Reason	VA content in EVA applied in photovoltaic industry is between 26%~33%. According to our early work, TGA test is accurate between 4%~40% (VA content). Weight loss during the acetic acid decomposition temperature due to additives present in EVA is just about 0.5%, and it would not influence the accuracy obviously.
	Motion by/2nd by	Zhaoyun Wang (Trina)/Zhixin Li (JYT)	
	Discussion	<p>The comment is mainly on the test accuracy. We have discussed the comment with Sam Samuels before China PV Standards Committee Meeting, the feedback of us is as follows. Discussion is still going on.</p> <p>Standard background introduction and run-robin data are attached. As shown in the PPT, TGA method is automatic, no VOC emission, and has the excellent repeatability (better than $\pm 1\%$). As a comparison, FTIR is serious with xylene emission, and its repeatability is about $\pm 5\%$. Meanwhile, saponification is slow, unsafe, and has the worst repeatability.</p> <p>Dupont China is also a member of our Task Force.(Dr. Fu Bo, oakland.fu@chn.dupont.com) We have discussed the TGA and FTIR methods in our Task Force meeting. According to our run robin, proposed TGA method is accuracy, and it's worth to promote it to be a worldwide test method.</p> <p>VA content in EVA applied in photovoltaic industry is between 26%~33%. According to our early work, TGA test is accurate between 4%~40% (VA content).</p> <p>Weight loss during the acetic acid decomposition temperature due to additives present in EVA is just about 0.5%, and it would not influence the accuracy obviously.</p>	
	Result of Vote (check ONE)	19-0	
		<input type="checkbox"/> [Negative is related and persuasive] > 1/3	GO TO "Final" → (E)
		<input type="checkbox"/> [Negative is related and not persuasive] < 2/3	
		<input type="checkbox"/> 2/3=<[Negative is related and not persuasive] <90%	GO TO "Final" → (C)
		<input checked="" type="checkbox"/> 90% =< [Negative is related and not persuasive]	GO TO "Not Significant Finding Option"
Not Significant Finding Option	This option can only be used "if the committee finds a negative not persuasive by a vote equal to or greater than 90% of the persons voting on the action". (Regulations ¶ 9.5.3.3.2)		
		<input type="checkbox"/> It is mutually agreed upon to term the negative "not significant"	GO TO → (D)
		<input type="checkbox"/> It is mutually agreed upon to term the negative "significant"	GO TO → (C)
	Motion	<input checked="" type="checkbox"/> The negative is "not significant".	
	Motion by/2nd by	Zhaoyun Wang (Trina)/Zhixin Li (JYT)	
Vote	<input checked="" type="checkbox"/>	19-0 Motion passed with simple majority	GO TO → (D)
	<input type="checkbox"/>	XX-XX Motion failed with simple majority	GO TO → (C)

Final	Negative is:	
	(A)	withdrawn (counted under h in disposition)
	(B)	not related (counted under i in disposition)
	(C)	related and not persuasive (significant)
	X (D)	not significant (counted under j in disposition)
	(E)	related and persuasive DOCUMENT FAILS
Comment generated. See comment #x		
A&R	Not approved	
	Reason:	

Disposition of Reject 1

1	Original number of Negatives	(g)	
0	# of Negatives withdrawn	(h)	
0	# of Negatives found not related	(i)	
1	# of Negatives found not significant	(j)	
Final	x	$g-(h+i+j)=0$	Reject is Not Valid and is not included in the denominator of § VI. Approval Conditions Check
		$g-(h+i+j)>0$	Reject is included in the denominator of § VI. Approval Conditions Check
		Reject without a Negative	Not Valid

Note: If all of the negative material included with a reject vote is withdrawn, determined to be not related, or determined to be not significant, the reject vote is not valid. (Regulations ¶ 9.4.3.3)

A&R	Not approved
	Reason:

IV. Comments

Comment 1

Comment	Referenced Section	*TF/Committee to fill in if necessary
	From	Vargas-Bernal, Rafael, (ITSdl)
	Comment	In subsection 5.2.5, 'Min' must be changed by 'min'
	Discussion	Adopt
Action	X	The committee agreed to do one of the following actions.
		*No motion is required in this step.
		No further action was taken by the committee.
		Refer to the task force for more consideration.
		New Business

	<input checked="" type="checkbox"/>	Other
Editorial Change	Adopt the editorial change according to the comment.	
	<input checked="" type="checkbox"/>	Case 1: No vote in this section : To be included and voted on in <u>§ 5. Summary of Editorial Changes.</u>
	<input type="checkbox"/>	Case 2: Voted in this section : Original section number and at least one full sentence are required in "FROM" and "TO" fields.
1	FROM:	
	To:	
	Justification (If necessary)	
2	FROM: Section xxx	
	To: Section xxx	
	Justification (If necessary)	
Motion by/2nd	Name (Company)/Name (Company)	
Vote	XX-XX Motion passed (or failed)	
A&R	<input type="checkbox"/>	Not approved
	<input type="checkbox"/>	Reason:

Comment 2

Comment	Referenced Section	*TF/Committee to fill in if necessary
	From	Kelly, George, (BPS)
	Comment	Editorial changes suggested as follows: 7.1.2 Heating Furnace – Heats the sample and controls sample temperature
	Discussion	Adopt
Action	<input checked="" type="checkbox"/>	The committee agreed to do one of the following actions. *No motion is required in this step.
	<input type="checkbox"/>	No further action was taken by the committee.
	<input type="checkbox"/>	Refer to the task force for more consideration.
	<input type="checkbox"/>	New Business
	<input checked="" type="checkbox"/>	Other

Editorial Change	Adopt the editorial change according to the comment.	
	x	Case 1: No vote in this section :
		To be included and voted on in § 5. Summary of Editorial Changes.
		Case 2: Voted in this section :
		Original section number and at least one full sentence are required in "FROM" and "TO" fields.
	1	FROM:
		To:
		Justification (If necessary)
	2	FROM: Section xxx
		To: Section xxx
Justification (If necessary)		
Motion by/2nd	Name (Company)/Name (Company)	
Vote	XX-XX Motion passed (or failed)	
A&R	<input type="checkbox"/>	Not approved
	<input type="checkbox"/>	Reason:

Comment 3

Comment	Referenced Section	*TF/Committee to fill in if necessary
	From	Kelly, George, (BPS)
	Comment	Editorial changes suggested as follows: 7.1.3 Heat Exchanger – Have heat exchange function, mainly for heating Provides heat to the furnace.
	Discussion	Adopt
Action	x	The committee agreed to do one of the following actions.
		*No motion is required in this step.
	<input type="checkbox"/>	No further action was taken by the committee.
	<input type="checkbox"/>	Refer to the task force for more consideration.
	<input type="checkbox"/>	New Business
<input checked="" type="checkbox"/>	Other	

Editorial Change	Adopt the editorial change according to the comment.	
	x	Case 1: No vote in this section :
		To be included and voted on in § 5. Summary of Editorial Changes.
		Case 2: Voted in this section :
		Original section number and at least one full sentence are required in "FROM" and "TO" fields.
	1	FROM:
		To:
		Justification (If necessary)
	2	FROM: Section xxx
		To: Section xxx
Justification (If necessary)		
Motion by/2nd	Name (Company)/Name (Company)	
Vote	XX-XX Motion passed (or failed)	
A&R	<input type="checkbox"/>	Not approved
	<input type="checkbox"/>	Reason:

Comment 4

Comment	Referenced Section	*TF/Committee to fill in if necessary
	From	Kelly, George, (BPS)
	Comment	Editorial changes suggested as follows: 7.1.4the purge protecting gas....
	Discussion	Adopt
Action approved	x	The committee agreed to do one of the following actions.
		*No motion is required in this step.
	<input type="checkbox"/>	No further action was taken by the committee.
	<input type="checkbox"/>	Refer to the task force for more consideration.
	<input type="checkbox"/>	New Business
<input checked="" type="checkbox"/>	Other	

Editorial Change	Adopt the editorial change according to the comment.	
	x	Case 1: No vote in this section :
		To be included and voted on in § 5. Summary of Editorial Changes.
		Case 2: Voted in this section :
		Original section number and at least one full sentence are required in "FROM" and "TO" fields.
	1	FROM:
		To:.
		Justification (If necessary)
	2	FROM: Section xxx
		To: Section xxx
Justification (If necessary)		
Motion by/2nd	Name (Company)/Name (Company)	
Vote	XX-XX Motion passed (or failed)	
A&R		Not approved
		Reason:

Comment 5

Comment	Referenced Section	*TF/Committee to fill in if necessary
	From	Kelly, George, (BPS)
	Comment	Editorial changes suggested as follows: 10.1a clean, sealed, marked bag.....
	Discussion	Adopt
Action Proposed	x	The committee agreed to do one of the following actions.
		*No motion is required in this step.
		No further action was taken by the committee.
		Refer to the task force for more consideration.
		New Business
	x	Other

Editorial Change	Adopt the editorial change according to the comment.	
	x	Case 1: No vote in this section :
		To be included and voted on in § 5. Summary of Editorial Changes.
		Case 2: Voted in this section :
		Original section number and at least one full sentence are required in “FROM” and “TO” fields.
	1	FROM:
		To:
		Justification (If necessary)
	2	FROM: Section xxx
		To: Section xxx
Justification (If necessary)		
Motion by/2nd	Name (Company)/Name (Company)	
Vote	XX-XX Motion passed (or failed)	
A&R		Not approved
		Reason:

V. Summary of Editorial Changes

Note: Original section number and at least one full sentence are required in “FROM” and “TO” fields.

1	FROM: Section 5.2.5 <i>Min</i> — minute(s)
	To: Section 5.2.5 <i>min</i> — minute(s)
	Justification: (If necessary)
2	FROM: Section 7.1.2 Heating Furnace – Heat the sample and control sample temperature
	To: Section 7.1.2 Heating Furnace – Heat _s the sample and controls sample temperature

A&R	<input type="checkbox"/> Not approved
	Reason:

VII. Safety Check

See § 14 of the Regulations for further information

Motion:	<input checked="" type="checkbox"/>	This is not a Safety Document: when all safety-related information is removed, the document is still technically sound and complete.
	<input type="checkbox"/>	This is a Safety Document: when all safety-related information is removed, the document is not technically sound and complete.
	<input type="checkbox"/>	Safety Checklist (Regulations ¶ 14.3) is complete and has been included with the document throughout the balloting process.
Motion by/2nd by		Zhaoyun Wang (Trina)/Zhixin Li (JYT)
Discussion		None
Vote		19-0 Motion passed
A&R	<input type="checkbox"/> Not approved	
	Reason:	

VIII. Intellectual Property Check

Note: This ballot may be all or part of a Standard or Safety Guideline. This IP check applies to the entire Standard or Safety Guideline. See § 15 of the Regulations for further information

X	The meeting chair asked those present in person or by electronic link, if they were aware of any potentially material patented technology or copyrighted items* in the Standard or Guideline.		
	X	No potentially material patented technology or copyrighted items are known	GO TO SECTION IX
	<input type="checkbox"/>	Potentially material patented technology or copyrighted items are known but a Letter of Assurance (LOA) or copyright release for such material has been obtained or presented to the committee.	GO TO SECTION IX
	<input type="checkbox"/>	Potentially material patented technology or copyrighted items are known but an LOA or copyright release for some of the material(s) has NOT been obtained or presented to the committee	
	N MOTO	<input type="checkbox"/>	Ask ISC for special permission to publish
<input type="checkbox"/>		Quit activity	

		Wait for LOA for patented technology or release of copyrighted items.
	Motion by/2nd by	Name (Company)/Name (Company)
	Discussion	XXXX
	Vote	XX-XX
	Final Action	Motion Passed
		Motion Failed
A&R		Not approved
		Reason:

* Note: Such potentially material patented technology or copyrighted items might have become known since the Standard or Safety Guideline was last reviewed, or might become relevant due to this ballot.

IX. Action for this document

Motion		This document passed committee review as balloted and will be forwarded to the A&R for procedural review.
	X	This document passed committee review with editorial changes and will be forwarded to the A&R for procedural review.
		This document failed committee review and will be returned to the task force for rework.
		This document failed committee review and work will be discontinued.
	Motion by/2nd by	Zhaoyun Wang (Trina)/Zhixin Li (JYT)
	Discussion	None
	Vote	19-0
	Final Action	X Motion passed
		Motion failed
A&R		Approved
		Not approved
		Reason: