

Record of Letter Ballot Review by TC Chapter for Procedural Review

Region/Locale: **Japan**

Global Technical Committee: **Flat Panel Display (FPD) - Materials & Components**

TC Chapter Cochairs: **Tadahiro Furukawa / Yamagata University, Yoshi Shibahara / Fujifilm**

Standards staff: **Chie Yanagisawa**

	Scheduled in Background Statement	Actual
Date	05/11/2018	05/11/2018
Location	SEMI Japan office, Tokyo, Japan	SEMI Japan office, Tokyo, Japan

I. Document Number and Title

Document Number 5977B	Document Title New Standard: Test Method for Water Vapor Barrier Property for Plastic Films with High Barrier for Electronic Devices
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II. Tally (Standards staff to fill in)

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

A minimum of 60% of the Voting Interests that have TC Members within the global technical committee that issued the Letter Ballot must return Votes. (*Regulations ¶ 9.7.1.1*)

Voting Tally (with example values):

Voting Interest:	Returned Votes		Distribution		Return Rate	
Letter Ballot	29	÷	44	=	65.9%	>=60%
Intercommittee Ballot	46					
Voting Interest Reject(s)	0		Total Voter with Rejects			0
Voting Interest Accept(s)	34					

III. Rejects

There is no reject vote on Ballot 5977B.

IV. Other Technical Issues

There is no Other Technical Issue on Ballot 5977B.

V. Comments

V- (i) Voters' Comments

Commenter 1 (**Steve Martell / Sonoscan, Inc.**) - Comment 1

Comment	<p>*TF/TC Chapter to fill in, if necessary. The title of this ballot is well described for the content. "Test Method for Water Vapor Barrier Property for Plastic Films with High Barrier for Electronic Devices"</p>		
	<p>Suggest changing title to include 'Gas'. From '...High Barrier...' to '...High Gas Barrier...' to be consistent with the text of the document.</p>		
Action	<p>The TC Chapter agreed to do one of the following actions.</p>		
	<p>*No motion is required in this step.</p>		
	<input type="checkbox"/>	Already addressed by Commenter #, Comment #	
	<input checked="" type="checkbox"/>	No further action was taken by the TC Chapter.	
	<input type="checkbox"/>	Refer to the TF for more consideration.	
	<input type="checkbox"/>	New Business	
	<input type="checkbox"/>	Editorial Change	
	Options for Editorial Change (check one)	<input type="checkbox"/>	<p>Case 1: No vote in this section :</p> <p>To be included and voted on in <u>§ VI. Summary of Editorial Changes.</u></p>
		<input type="checkbox"/>	<p>Case 2: Voted in this section :</p> <p>Original section number and at least one full sentence are required in "FROM" and "TO" fields.</p>
Editorial Change	1	FROM: Section/Paragraph xxx	
		TO: Section/Paragraph xxx	
		Justification (If necessary)	
	2	FROM: Section/Paragraph xxx	
		TO: Section/Paragraph xxx	
		Justification (If necessary)	
Motion		To approve above editorial change(s)	
Motion by/2nd by		Name (Company)/Name (Company)	
Discussion		XXXX	
Vote		XX-XX; Motion passed/failed.	

Commenter 2 (Mei-Chien Lu / Monte Rosa Technology) - Comment 1

Comment	<p>*TF/TC Chapter to fill in, if necessary.</p> <p>The definition is given in the following part of this ballot. This is just a one example, how to fix the test sample on glass plate. Furthermore, this is not essential, so it is described in the NOTE 1.</p> <p>“NOTE 1: Place the Ca / Al layer deposited test sample on a specific shaped frame made of silicone rubber with the Al layer facing up. Pour and fill the melted beeswax and paraffin mixture into the frame that the test sample is place. Wait until the melted beeswax and paraffin is cooled and solid. After that, remove the frame and prepare the measurement sample.”</p>	
	<p>1. need to define silicon sample preparation frame.</p>	
Action	<p>The TC Chapter agreed to do one of the following actions.</p>	
	<p>*No motion is required in this step.</p>	
	<input type="checkbox"/>	Already addressed by Commenter #, Comment #
	<input checked="" type="checkbox"/>	No further action was taken by the TC Chapter.
	<input type="checkbox"/>	Refer to the TF for more consideration.
	<input type="checkbox"/>	New Business
	<input type="checkbox"/>	Editorial Change
	Options for Editorial Change (check one)	<p>Case 1: No vote in this section :</p> <p>To be included and voted on in § VI. Summary of Editorial Changes.</p>
		<p>Case 2: Voted in this section :</p> <p>Original section number and at least one full sentence are required in “FROM” and “TO” fields.</p>
Editorial Change	1	FROM: Section/Paragraph xxx
		TO: Section/Paragraph xxx
		Justification (If necessary)
	2	FROM: Section/Paragraph xxx
		TO: Section/Paragraph xxx
		Justification (If necessary)
	<p>Motion</p> <p>To approve above editorial change(s)</p>	
	<p>Motion by/2nd by</p> <p>Name (Company)/Name (Company)</p>	
<p>Discussion</p> <p>XXXX</p>		
<p>Vote</p> <p>XX-XX; Motion passed/failed.</p>		

Commenter 2 (Mei-Chien Lu / Monte Rosa Technology) - Comment 2

Comment	<p>*TF/TC Chapter to fill in, if necessary. Please refer Figure 3. This can be described from the figures.</p>		
	<p>2. graph explaining delay time mechanisms need better explanation and association.</p>		
Action	<p>The TC Chapter agreed to do one of the following actions.</p>		
	<p>*No motion is required in this step.</p>		
		<p>Already addressed by Commenter #, Comment #</p>	
	X	<p>No further action was taken by the TC Chapter.</p>	
		<p>Refer to the TF for more consideration.</p>	
		<p>New Business</p>	
		<p>Editorial Change</p>	
	Options for Editorial Change (check one)		<p>Case 1: No vote in this section :</p> <p>To be included and voted on in § VI. Summary of Editorial Changes.</p>
			<p>Case 2: Voted in this section :</p> <p>Original section number and at least one full sentence are required in "FROM" and "TO" fields.</p>
Editorial Change	1	<p>FROM: Section/Paragraph xxx</p>	
		<p>TO: Section/Paragraph xxx</p>	
		<p>Justification (If necessary)</p>	
	2	<p>FROM: Section/Paragraph xxx</p>	
		<p>TO: Section/Paragraph xxx</p>	
		<p>Justification (If necessary)</p>	
Motion		To approve above editorial change(s)	
Motion by/2nd by		Name (Company)/Name (Company)	
Discussion		XXXX	
Vote		XX-XX; Motion passed/failed.	

Commenter 2 (Mei-Chien Lu / Monte Rosa Technology) - Comment 3

Comment	<p>*TF/TC Chapter to fill in, if necessary.</p> <p>Please refer NOTE 2. The standard for water vapor transition rate (WVTR) is ISO 15106-7:2015. WVTR calculation mentioned in this standard is showing the relationship to ISO 15106-7:2015 and this is why this was described in the note. Moreover, even in ISO it is not mentioned that which storage time to use. And commonly the most stable part of the slope is used for WVTR calculation.</p>	
	<p>3. formula to determine water vapor did not define clearly how the storage time and corrosion area increase ratios are obtained from test results.</p>	
Action	<p>The TC Chapter agreed to do one of the following actions.</p>	
	<p>*No motion is required in this step.</p>	
		Already addressed by Commenter #, Comment #
	X	No further action was taken by the TC Chapter.
		Refer to the TF for more consideration.
		New Business
		Editorial Change
	Options for Editorial Change (check one)	<p>Case 1: No vote in this section :</p> <p>To be included and voted on in § VI. Summary of Editorial Changes.</p>
		<p>Case 2: Voted in this section :</p> <p>Original section number and at least one full sentence are required in "FROM" and "TO" fields.</p>
Editorial Change	1	FROM: Section/Paragraph xxx
		TO: Section/Paragraph xxx
		Justification (If necessary)
	2	FROM: Section/Paragraph xxx
		TO: Section/Paragraph xxx
		Justification (If necessary)
<p>Motion</p> <p>To approve above editorial change(s)</p>		
<p>Motion by/2nd by</p> <p>Name (Company)/Name (Company)</p>		
<p>Discussion</p> <p>XXXX</p>		
<p>Vote</p> <p>XX-XX; Motion passed/failed.</p>		

Commenter 2 (Mei-Chien Lu / Monte Rosa Technology) - Comment 4

Comment	<p>*TF/TC Chapter to fill in, if necessary.</p> <p>The definition is given in the following part of this ballot. It is necessary to make/keep the surface clean and remove moisture/water from the test sample by pre-treatment. However, pre-treatment condition will be different by samples therefore we did not specify the pre-treatment condition.</p> <p>“9.1.2 Pre-treatment — No contamination on the surface, which contact with Ca. Dehydrate the test sample. Note: Especially when the gas barrier layer consists of organic-inorganic stacked layers, sufficient dehydration treatment is required.”</p>	
	<p>4. If pretreatment is important, need to define them. or name a few required pretreatments for comparisons.</p>	
Action	<p>The TC Chapter agreed to do one of the following actions.</p>	
	<p>*No motion is required in this step.</p>	
	<input type="checkbox"/>	Already addressed by Commenter #, Comment #
	<input checked="" type="checkbox"/>	No further action was taken by the TC Chapter.
	<input type="checkbox"/>	Refer to the TF for more consideration.
	<input type="checkbox"/>	New Business
	<input type="checkbox"/>	Editorial Change
	Options for Editorial Change (check one)	<p>Case 1: No vote in this section :</p> <p>To be included and voted on in § VI. Summary of Editorial Changes.</p>
		<p>Case 2: Voted in this section :</p> <p>Original section number and at least one full sentence are required in “FROM” and “TO” fields.</p>
Editorial Change	1	FROM: Section/Paragraph xxx
		TO: Section/Paragraph xxx
		Justification (If necessary)
	2	FROM: Section/Paragraph xxx
		TO: Section/Paragraph xxx
		Justification (If necessary)
Motion		To approve above editorial change(s)
Motion by/2nd by		Name (Company)/Name (Company)
Discussion		XXXX
Vote		XX-XX; Motion passed/failed.

V-(ii) Comments Created by handling Negative

There is no comment created by handling negative on Ballot 5977B.

VI. Editorial Changes other than those dealt with in Section V.

There is no Editorial Change other than those dealt with in Section V on Ballot 5977B.

VII. Approval Conditions Check

VII - (i). Approval Rate

APPROVAL CONDITION 1: All Negatives have been discussed and were withdrawn, found not related, found not persuasive, or addressed by a Technical Change. (*Regulations ¶ 9.7.1.2*)

APPROVAL CONDITION 2: At least 90% of the sum of valid Voting Interest Accept and Voting Interest Reject Votes must be Accept. (*Regulations ¶ 9.7.1.3*)

Note: If both approval conditions are not satisfied, the Document fails.

		Accepts		(Accepts + Valid Rejects)				
Approval Rate	=	34	/	34	=	100.0%	>=90%	

VII – (ii) Approval Level (check one)

See § 9.7.2 of the *Regulations* for further information

- ☒ The Letter Ballot meets the Letter Ballot Approval Conditions for the global technical committee
- ☐ The Letter Ballot the Letter Ballot Approval Conditions for the TC Chapter and a Ratification Ballot will be issued to verify Technical Changes

VIII. Safety Check

See § 15 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. (<i>Regulations ¶ 8.7.1</i>)
	<input type="checkbox"/>	This is a Safety Document , when all safety-related information is removed, the Document is not technically sound and complete. (<i>Regulations ¶ 8.7.2</i>)
	<input type="checkbox"/>	Safety Checklist (<i>Regulations ¶ 15.3</i>) is complete and has been included with the Document throughout the balloting process. (<i>Regulations ¶¶ 15.1.2</i>)
Motion by/2nd by		Toshimasa Eguchi (Sumitomo Bakelite) / Ryoichi Watanabe (Japan Display)
Discussion		None
Vote		6-0; Motion passed

IX. Intellectual Property (IP) Check

Note: This Letter Ballot may cover all or part of a Standard or Safety Guideline. This IP check applies to the entire Standard or Safety Guideline. See § 16 of the Regulations for further information.

X	The TC Chapter meeting chair asked those participating, if they were aware of any potentially material patented technology or copyrighted items* in the Standard or Guideline. (<i>Regulations</i> ¶ 8.8.1)	
	No potentially material patented technology or reproduction of copyrighted items are known.	GO TO SECTION X
X	Potentially material patented technology or reproduction of copyrighted items are known, but a Letter of Assurance (LOA) or copyright release letter for such items has been obtained or presented to the TC Chapter.	GO TO SECTION X
	Potentially material patented technology or reproduction of copyrighted items are known and use of such materials is technically justified by the TC Chapter, but an LOA or copyright release letter for some of the item(s) has NOT been obtained or presented to the TC Chapter.	
MOTION		Ask ISC for special permission to publish.
		Quit activity.
		Wait for LOA for patented technology or release of copyrighted items.
Motion by/2 nd by		Name (Company)/Name (Company)
Discussion		XXXX
Vote		XX-XX
Final Action		Motion Passed
		Motion Failed

* 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 Letter Ballot.

X. Action for This Document

Motion	X	This Document passed TC Chapter review as balloted and will be forwarded to the A&R SC for procedural review.
		This Document passed TC Chapter review with editorial changes and will be forwarded to the A&R SC for procedural review.
		This Document passed TC Chapter review with Technical Changes and with or without editorial changes and will be forwarded to the A&R SC for procedural review. A Ratification Ballot will be issued to verify the Technical Changes.
		This Document failed TC Chapter review and will be returned to the TF for rework.
		This Document failed TC Chapter review and work will be discontinued.
Motion by/2 nd by		Toshimasa Eguchi (Sumitomo Bakelite) / Ryoichi Watanabe (Japan Display)
Discussion		None
Vote		7-0
Final Action	X	Motion passed
		Motion failed

Standards staff to record the result of the A&R procedural review here:

A&R		Approved for publication
		Approved pending for acceptance of the Ratification Ballot
		Not approved
	Reason:	