

Record of Line-item Letter Ballot Review by TC Chapter for Procedural Review

Region/Locale: [Japan](#)

Global Technical Committee: [FPD Materials & Components](#)

TC Chapter Cochairs: [Tadahiro Furukawa/ Yamagata University](#), [Ryoichi Watanabe/ Japan Display Inc.](#), [Toshimasa Eguchi/ Sumitomo Bakelite](#)

Standards Staff: [Akiko Yoshida](#)

	Scheduled in Background Statement	Actual
Date	6/2/2023	6/2/2023
Location	SEMI Japan office/ Web	SEMI Japan office/ Web
Reason for Change of Date and/or Location (if changed)		

Note: See *Regulations* ¶ 9.5 Exceptions for allowable reason to change.

[Document Information](#)

I. Document Number, Title, Lists of Line Items

Document Number 6977		Document Title Line Item Revision to SEMI D34-0710 (Reapproved 0117) “TEST METHOD FOR FPD POLAIZING FILMS”
Line Items	Line Item 1	Line Item Title Reformat sections to meet the requirement which is specified in section 3.2 of Procedure Manual
	Line Item 2	Line Item Title Update several references

[Line Item 1 Adjudication](#)

II. Tally

Standards staff to fill in.

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

Note: 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* ¶ 9.6.2.1.1)

Voting Tally (with example values):

Voting Interest:	Returned Votes		Distribution	=	Return Rate	
Letter Ballot	31	÷	51	=	60.8%	≥60%
Intercommittee Ballot	18					
Voting Interest Reject(s)	0		Total Voters with Rejects		0	
Voting Interest Accept(s)	32					

Note: See Regulations § 3.2.1 for definition of Voting Interest.

III. Rejects

None.

IV. Other Technical Issues

None.

V. Comments

V- (i) Voters' Comments

Commenter 1 (Vargas-Bernal, Rafael/Instituto Tecnológico Superior de Irapuato) - Comment 1

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.	
	In subsection R 1-3.1, R 1-2.4, R 1-3 7.1 KA(lambda) and KB(lambda) must be emphasized using italic fonts.	
Action	The TC Chapter agreed to do one of the following actions.	
	*No motion is required in this step.	
	<input type="checkbox"/>	Already addressed by Commenter #, Comment #
	<input 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 checked="" type="checkbox"/>	Editorial Change
Options for editorial change (check one)	<input type="checkbox"/>	Case 1: No vote in this section: To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.
	<input checked="" type="checkbox"/>	Case 2: Voted in this section: Original section number and at least one full sentence are required in "FROM" and "TO" fields.

Editorial Changes	1	<p>FROM: Section/Paragraph Section 1-3.1, R1-3.4 and R1-3.7, "$K_A(\lambda)$", "$K_B(\lambda)$"</p> <p>R1-3.1 $K_A(\lambda)$ is measured on condition of polarizing prism and polarizing film placed perpendicularly and $K_B(\lambda)$ is measured on condition of polarizing prism and polarizing film placed parallel, where $K_A(\lambda)$ is transmittance light on the absorption axis and $K_B(\lambda)$ is transmittance light on the transmittance axis.</p> <p>R1-3.4 (Line 2) Cross transmittance light $T_c(\lambda)$: $T_c(\lambda) = K_A(\lambda) \times K_B(\lambda)$</p> <p>R1-3.7.1 Value calculated from following formula same as standard method, where the value of transmittance light $K_A(\lambda)$ (visibility corrected) on the absorption axis is transmittance T_A on the absorption axis, and transmittance light $K_B(\lambda)$ (visibility corrected) on the transmittance axis is transmittance T_B on the transmittance axis.</p>
		<p>TO: Section/Paragraph Section 1-3.1, R1-3.4 and R1-3.7, "$K_A(\lambda)$", "$K_B(\lambda)$"</p> <p>R1-3.1 $K_A(\lambda)$ is measured on condition of polarizing prism and polarizing film placed perpendicularly and $K_B(\lambda)$ is measured on condition of polarizing prism and polarizing film placed parallel, where $K_A(\lambda)$ is transmittance light on the absorption axis and $K_B(\lambda)$ is transmittance light on the transmittance axis.</p> <p>R1-3.4 (Line 2) Cross transmittance light $T_c(\lambda)$: $T_c(\lambda) = K_A(\lambda) \times K_B(\lambda)$</p> <p>R1-3.7.1 Value calculated from following formula same as standard method, where the value of transmittance light $K_A(\lambda)$ (visibility corrected) on the absorption axis is transmittance T_A on the absorption axis, and transmittance light $K_B(\lambda)$ (visibility corrected) on the transmittance axis is transmittance T_B on the transmittance axis.</p>
		<p>Justification (If necessary) The font for parameters should be harmonized with the equations (R1-1) and (R1-2).</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		Hiroshi Ishizuka / FUJIFILM Corporation, Ryoichi Watanabe / Japan Display Inc.
Discussion		None
Vote		7 Y-0 N; Motion passed.

This table is needed for each Comment accompanied a Vote

VI. Editorial Changes Other than Those Voted on in § V

None.

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 ¶ 9.6.2.1.2)

APPROVAL CONDITION 2: At least 90% of the sum of valid Voting Interest Accept and Voting Interest Reject Votes must be Accept. (Regulations ¶ 9.6.2.1.3)

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

		Accepts		(Accepts + Valid Rejects)			
Approval Rate	=	32	/	32	=	100.0%	≥90%

VII. – (ii) Approval Level (check one)

Note: See Regulations § 9.6.2 for further information.

- Globally Approved (No Ratification Ballot needed):**
Line Item 1 meets the Letter Ballot approval conditions for the global technical committee.
- Need a Ratification Ballot:**
Line Item 1 meets the Letter Ballot approval conditions for the TC Chapter and a Ratification Ballot will be issued to validate technical changes.

Line Item 2 Adjudication

II. Tally

Standards staff to fill in.

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

Note: 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 ¶ 9.6.2.1.1)

Voting Tally (with example values):

Voting Interest:	Returned Votes		Distribution		Return Rate	
Letter Ballot	31	÷	51	=	60.8%	≥60%
Intercommittee Ballot	18					
Voting Interest Reject(s)	0		Total Voters with Rejects		0	
Voting Interest Accept(s)	33					

Note: See Regulations § 3.2.1 for definition of Voting Interest.

III. Rejects

None.

IV. Other Technical Issues

None.

V. Comments

V- (i) Voters' Comments

Commenter 1 (Vargas-Bernal, Rafael/Instituto Tecnológico Superior de Irapuato) - Comment 1

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.		
	Equations R1-3 and R1-4 must be edited using italic fonts.		
Action	The TC Chapter agreed to do one of the following actions.		
	*No motion is required in this step.		
	<input type="checkbox"/>	Already addressed by Commenter #, Comment #	
	<input 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 checked="" type="checkbox"/>	Editorial Change	
	Options for editorial change (check one)	<input type="checkbox"/> Case 1: No vote in this section: To be included and voted on as a group in § VI. <i>Editorial Changes Other than Those Voted on in § V.</i>	
		<input checked="" type="checkbox"/> Case 2: Voted in this section: Original section number and at least one full sentence are required in "FROM" and "TO" fields.	
	Editorial Changes	1	FROM: Section/Paragraph Equation (R1-3) in Section R1-3.2 $T_S(\lambda) = \frac{K_A(\lambda) + K_B(\lambda)}{2}$ TO: Section/Paragraph Equation (R1-3) in Section R1-3.2 $T_S(\lambda) = \frac{K_A(\lambda) + K_B(\lambda)}{2}$ Justification (If necessary) The font for parameters should be harmonized with the equations (R1-1) and (R1-2).
		2	FROM: Section/Paragraph Equation (R1-4) in Section R1-3.3 $T_P(\lambda) = \frac{K_A^2(\lambda) + K_B^2(\lambda)}{2}$

TO: Section/Paragraph Equation (R1-4) in Section R1-3.3	
$Tp(\lambda) = \frac{K_A^2(\lambda) + K_B^2(\lambda)}{2}$	
Justification (If necessary) The font for parameters should be harmonized with the equations (R1-1) and (R1-2).	
Motion	To approve above editorial change(s)
Motion by/2nd by	Hiroshi Ishizuka / FUJIFILM Corporation, Ryoichi Watanabe / Japan Display Inc.
Discussion	None
Vote	7 Y-0 N; Motion passed.

This table is needed for each Comment accompanied a Vote

VI. Editorial Changes Other than Those Voted on in § V None.

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 ¶ 9.6.2.1.2*)

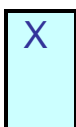
APPROVAL CONDITION 2: At least 90% of the sum of valid Voting Interest Accept and Voting Interest Reject Votes must be Accept. (*Regulations ¶ 9.6.2.1.3*)

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

		Accepts		(Accepts + Valid Rejects)			
Approval Rate	=	33	/	33	=	100.0%	≥90%

VII. – (ii) Approval Level (check one)

Note: See *Regulations § 9.6.2* for further information.



Globally Approved (No Ratification Ballot needed):

Line Item 1 meets the Letter Ballot approval conditions for the global technical committee.

Need a Ratification Ballot:

Line Item 1 meets the Letter Ballot approval conditions for the TC Chapter and a Ratification Ballot will be issued to validate technical changes.

Checks for Entire Document Including All Approved Line Items

VIII. Safety Check

Note: This Safety check applies to the entire Standard or Safety Guideline including all the approved Line Items. See § 15 of the Regulations for further information.

Motion	X	This is not a Safety Document , when all safety-related information is removed, the Document is still technically sound and complete. (<i>Regulations</i> ¶ 8.7.1)
		This is a Safety Document , when all safety-related information is removed, the Document is not technically sound and complete. (<i>Regulations</i> ¶ 8.7.2)
		Safety Checklist (<i>Regulations</i> ¶ 15.3) is complete and has been included with the Document throughout the balloting process. (<i>Regulations</i> ¶ 15.1.2)
Motion by/2nd by		By: Hiroshi Ishizuka / FUJIFILM Corporation Second: Ryoichi Watanabe / Japan Display Inc.
Discussion		None
Vote		7 Y- 0 N; Motion passed

IX. Intellectual Property (IP) Check

Note: This Letter Ballot may cover all or part of a Standard or Safety Guideline. Regardless of the coverage, this IP check applies to the entire Standard or Safety Guideline including all the approved Line Items*. See Regulations § 16 for further information.

X	The TC Chapter meeting chair asked those participating, if they were aware of any patented technology that might be relevant (see <i>Regulations</i> ¶ 16.3.1.1) to the Standard or Safety Guideline; or, any copyrighted items or trademarks that are used/reproduced (see <i>Regulations</i> ¶ 16.4.1.2) in the Standard or Safety Guideline. (Also see, <i>Regulations</i> § 8.8)			
X	The question is NOT answered in affirmative (No potentially material patented technology or use/reproduction of copyrighted items/trademarks is known.)	GO TO SECTION X.		
	The question is answered in affirmative	Is any of the known IPs a patented technology?	Yes, at least one of them is a patented technology	GO TO IX (a) "Patented Technology" subsection
			No	GO TO IX (b) "Copyright items" subsection

IX(a) Patented Technologies subsection

IX(a1) Total numbers of Patented Technologies to be dealt with

# Fill number	(l) Known Patented Technology that might be relevant to the Standard/Safety Guideline	# Fill number	(m) Number of patented technologies first became known to the TC Chapter on or after the day of the issuance of this Letter Ballot	Postpone assessment of such patented technologies to be performed at the next scheduled TC Chapter meeting.
		# Fill number	(n) Number of patented technologies first became known to the TC Chapter before the day of the issuance of this Letter Ballot	GO TO IX (a2)

IX(a2) Assessment of disclosed patented technologies

Disclosed patented technology #1 (Brief description, e.g., patent title and number):		Date of Assessment (If different from the date of Letter Ballot adjudication) MM/DD/YYYY			
Is disclosed patented technology #1 found to be "might be material" to the Standard/Safety Guideline?		YES (It is a PMPT)	Is the use of this PMPT technically justified?	YES	PROCEED to assess NEXT one, or if this is the last one, GO TO IX(a3)
				NO	The Document is failed and returned to the TF
		NO	No further action is needed for patented technology #1		

This table is needed for each disclosed patented technology.

IX(a3) LOA status check of PMPT of which inclusion assessed to be justified

LOA Status of PMPT #1				
Has an LOA for this patented technology been received from every owner ?		YES	PROCEED to check NEXT one, or if this is the last one, GO TO IX(b)	
		NO	MOTION	Ask ISC for special permission to publish.
				Quit activity.
Wait for LOA				PROCEED to check NEXT one, or if this is the last one, GO TO IX(b1)
		Motion by/ 2 nd by	Name (Company)/Name (Company)	
		Discussion	XXXX	
		Vote	XX Y-XX N; Motion passed (or failed)	

This table is needed for each PMPT of which inclusion assessed to be justified.

IX(b1) Total numbers of copyrighted items to be dealt with

# Fill number	(o) Known copyrighted items that are used or reproduced to the	# Fill number	(o) > 0 There is at least one known copy righted items that might be relevant to the Standard/Safety Guideline	GO TO IX (b2)
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Standard/Safety Guideline	o = 0	There is no disclosed copyrighted item	GO TO IX (c)
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IX(b2) Assessment of disclosed copyrighted items

Disclosed copyrighted item #1 (Brief description of its use in the Document):					
Is disclosed copyrighted item #1 used or reproduced in the Standard/Safety Guideline?		YES	Is the use/reproduction of this copyrighted item technically justified?	YES	PROCEED to assess NEXT one, or if this is the last one, GO TO IX(b3)
				NO	The Document is failed and returned to the TF
		NO	No further action is needed for copyrighted item #1		

This table is needed for each disclosed copyrighted item.

IX(b3) Copyright release status check of copyrighted item of which inclusion assessed to be justified

Copyright release Status of copyrighted item #1					
Has the copyright release been received from its owner ?.		YES	PROCEED to assess NEXT one, or if this is the last one, GO TO IX(c)		
	MOTION	NO		Ask ISC for special permission to publish.	
				Quit activity.	The Document is failed and returned to the TF
				Wait for copyright release letter	PROCEED to check NEXT one, or if this is the last one, GO TO IX(c)
		Motion by/ 2nd by		Name (Company)/Name (Company)	
		Discussion		XXXX	
		Vote		XX Y-XX N; Motion passed (or failed)	

This table is needed for each copyrighted item of which use/reproduction assessed to be justified.

IX(c) Assessment of disclosed (identified) trademark

Is there any trademark in the Standard/Safety Guideline?		YES	Is every instance of trademark use technically justified?	YES	GO TO IX(d)
				NO	The Document is failed and returned to the TF
		NO	GO TO IX(d)		

IX(d) IP check completion condition check

The co-chair checks if any Patented Technologies first become known to	YES	Sections IX(a2) and IX(a3) shall be completed and recorded for such patented technologies at next
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the TC Chapter on or after the day of the issuance of this Letter Ballot? i.e., m>0 in IX(a1)			scheduled meeting of the TC Chapter. Until then, the TC Chapter shall NOT go to X (making motion to pass/fail this Document) (see Regulations ¶ 16.4.1.2) Until then this Letter Ballot Review is on hold.
		NO	GO TO X

X. Action for This Document

Motion applicable items (Check all)	<input type="checkbox"/>	Line item(s) 1 passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.
	<input checked="" type="checkbox"/>	Line item(s) [1] and [2] passed TC Chapter review with editorial changes and will be forwarded to the ISC A&R SC for procedural review.
	<input type="checkbox"/>	Line item(s) [X], [X] and [X] passed TC Chapter review with technical changes and with or without editorial changes and will be forwarded to the ISC A&R SC for procedural review. A Ratification Ballot will be issued to verify the technical changes.
	<input type="checkbox"/>	Line item(s) [X], [X] and [X] failed TC Chapter review and will be returned to the TF for rework.
	<input type="checkbox"/>	Line item(s) [X], [X] and [X] failed TC Chapter review and work will be discontinued.
Motion by/ 2nd by	By: Hiroshi Ishizuka / FUJIFILM Corporation Second: Ryoichi Watanabe / Japan Display Inc.	
Discussion	None	
Vote	7 Y-0 N	
Final Action	<input checked="" type="checkbox"/>	Motion passed
	<input type="checkbox"/>	Motion failed

Note: If the use of PMPT or copyrighted item is justified by the TC Chapter, LOA or release form must be received before publication can proceed.