



# FPD Materials & Components

## Japan TC Chapter

### Meeting Summary and Minutes

Japan Standards Fall 2022 Meetings  
 Friday, October 14, 2022, 14:30-16:30(JST)  
 OVTCCM

#### TC Chapter Announcements

Next TC Chapter Meeting  
 FPD Materials & Components Japan TC Chapter  
 Wednesday, January 25, 2023, 15:00-17:00[JST]  
 OVTCCM / SEMI Japan office, Tokyo, Japan. (Hybrid)

#### Table 1 Meeting Attendees

*Italics indicate virtual participants*

**Co-Chair:** Tadahiro Furukawa (Yamagata University), Ryoichi Watanabe (Japan Display), Toshimasa Eguchi (Sumitomo Bakelite)  
**SEMI Staff:** Mami Nakajo (SEMI Japan)

<i>Company</i>	<i>Last</i>	<i>First</i>	<i>Company</i>	<i>Last</i>	<i>First</i>
Yamagata University	Furukawa	Tadahiro	<i>HOYA</i>	<i>Kondo</i>	<i>Keitaro</i>
<i>FUJIFILM</i>	<i>Ishizuka</i>	<i>Hiroshi</i>	<i>Sumitomo Bakelite</i>	<i>Eguchi</i>	<i>Toshimasa</i>
Japan Display	Watanabe	Ryoichi	<i>NIPPON STEEL Chemical &amp;Material</i>	<i>Nakatsuka</i>	<i>Jun</i>
<i>Corning International</i>	<i>Okamura</i>	<i>Haruo</i>	<i>SK-Electronics</i>	<i>Miyazaki</i>	<i>Shohei</i>
<i>SEMI Japan</i>	<i>Kanno</i>	<i>Hirofumi</i>	<i>SEMI Japan</i>	<i>Nakajo</i>	<i>Mami</i>

#### Table 2 Leadership Changes

<i>WG/TF/SC/TC Name</i>	<i>Previous Leader</i>	<i>New Leader</i>
None		

#### Table 3 Committee Structure Changes

<i>Previous WG/TF/SC Name</i>	<i>New WG/TF/SC Name or Status Change</i>
None	

#### Table 4 Ballot Results

<i>Document #</i>	<i>Document Title</i>	<i>Committee Action</i>
6868	Revision to SEMI D6-0211 (Reapproved 0117) “Specification For Liquid Crystal Display (LCD) Mask Substrates” with title change to “Specification For Flat Panel Display (FPD) Mask Substrates”	Passed, as ballot

**Table 4 Ballot Results**

<i>Document #</i>	<i>Document Title</i>	<i>Committee Action</i>
6869	Revision to SEMI D38-0211 (Reapproved 0117) “Guide For Quality Area Of LCD Masks” with title change to “Guide For Quality Area Of Flat Panel Display (FPD) Masks”	Passed, as ballot
6912	Line Item Revision to SEMI D39-0704 (Reapproved 0117): “SPECIFICATION FOR MARKERS ON FPD POLARIZING FILMS”	
LI-1	Insert Clause 5 “Test Methods” so as to meet the requirement specified in section 3.2 of Procedure Manual.	Passed, as ballot
6937	New Standard: TERMINOLOGY FOR FPD PHASE SHIFT MASK AND MASK BLANKS	Passed, with editorial changes.

#1 **Passed** ballots and line items will be submitted to the ISC Audit & Review Subcommittee for procedural review.

#2 **Failed** ballots and line items were returned to the originating task forces for re-work and re-balloting or abandoning.

**Table 5 Activities Approved by the GCS between meetings of the TC Chapter**

<i>#</i>	<i>Type</i>	<i>SC/TF/WG</i>	<i>Details</i>
None			

**Table 6 Authorized Activities**

Listing of all revised or new SNARF(s) approved by the Originating TC Chapter.

<i>#</i>	<i>Type</i>	<i>SC/TF/WG</i>	<i>Details</i>
6977	SNARF	FPD Materials & Components Maintenance TF	Line Item Revision to SEMI D34-0710: “TEST METHOD FOR FPD POLARIZING FILMS”

#1 SNARFs and TFOFs are available for review on the SEMI Web site at:

<http://downloads.semi.org/web/wstdsbal.nsf/TFOFSNARF>

**Table 7 Authorized Ballots**

<i>#</i>	<i>When</i>	<i>TF</i>	<i>Details</i>
None			

**Table 8 SNARF(s) Granted a One-Year Extension**

<i>#</i>	<i>TF</i>	<i>Title</i>	<i>Expiration Date</i>
None			

**Table 9 SNARF(s) Abolished**

<i>#</i>	<i>TF</i>	<i>Title</i>
None		

**Table 10 Standard(s) to receive Inactive Status**

<i>Standard Designation</i>	<i>Title</i>
None	

**Table 10 Standard(s) to receive Inactive Status**

<i>Standard Designation</i>	<i>Title</i>
None	

**Table 11 New Action Items**

<i>Item #</i>	<i>Assigned to</i>	<i>Details</i>
20221014-01	Mami Nakajo (SEMI Japan)	To send the ballot review sheets to the A&R
20221014-02	FPD Materials & Components Maintenance Task Force	To prepare the Document #6977, Line Item Revision to SEMI D34-0710: “TEST METHOD FOR FPD POLARIZING FILMS” by the next TC Chapter Meeting

**Table 12 Previous Meeting Action Items**

<i>Item #</i>	<i>Assigned to</i>	<i>Details</i>
None		

## 1. Welcome, Reminders, and Introductions

Tadahiro Furukawa (Yamagata University) called the meeting to order at 14:30. The meeting reminders on antitrust issues, intellectual property issues and holding meetings with international attendance were reviewed. Attendees introduced themselves.

**Attachment:** 01-01\_RequiredElementNov2020Rev1-E&J-r1

## 2. Review of Previous Meeting Minutes

The TC Chapter reviewed the minutes of the previous meeting.

Approved on condition that the modifications are changed.

<b>Motion:</b>	Approve the previous meeting minutes as written with editorial changes
<b>By / 2<sup>nd</sup>:</b>	Ryoichi Watanabe (Japan Display), Toshimasa Eguchi (Sumitomo Bakelite)
<b>Discussion:</b>	None
<b>Vote:</b>	6-0, motion passed

**Attachment:** 02-01\_20220610\_FPD-M&C\_Japan\_MeetingMinutes

## 3. Liaison Reports

### 3.1 FPD Metrology Korea TC Chapter

Mami Nakajo (SEMI Japan) reported for the FPD Metrology Korea TC Chapter as attached material.

**Attachment:** 03-01\_Liaison report\_FPDM\_KR\_June2022

### 3.2 FPD Metrology Taiwan TC Chapter

Mami Nakajo (SEMI Japan) reported for the FPD Metrology Taiwan TC Chapter as attached material.

**Attachment:** 03-02\_FPD-M Taiwan Liaison report\_20221014

### 3.3 SEMI Staff Report

Mami Nakajo (SEMI Japan) gave the SEMI Staff Report.

**Attachment:** 03-03\_Staff Report July 2022 v6\_Jr1

Presiding Chair changed from Tadahiro Furukawa (Yamagata University) to Toshimasa Eguchi (Sumitomo Bakelite).

## 4. Ballot Review

NOTE 1: TC Chapter adjudication on ballots reviewed is detailed in the Audits & Review (A&R) Subcommittee Forms for procedural review. The A&R forms are available as attachments to these minutes. The attachment number for each balloted document is provided under each ballot review section below.

### 4.1 Cycle 6-2022 submitted by the Japan TC Chapter

#### 4.1.1 Doc6868, Revision to SEMI D6-0211 (Reapproved 0117) “Specification For Liquid Crystal Display (LCD) Mask Substrates” with title change to “Specification For Flat Panel Display (FPD) Mask Substrates”

<b>Motion:</b>	This is not a Safety Document, when all safety-related information is removed, the Document is still technically sound and complete. (Regulations ¶ 8.7.1)
<b>By / 2<sup>nd</sup>:</b>	Shohei Miyazaki (SK-Electronics)/ Keitaro Kondo (HOYA)
<b>Discussion:</b>	None
<b>Vote:</b>	6 in favor and 0 opposed. <b>Motion Passed.</b>

<b>Motion:</b>	This Document passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.
<b>By / 2<sup>nd</sup>:</b>	Keitaro Kondo (HOYA) / Tadahiro Furukawa (Yamagata University)
<b>Discussion:</b>	None
<b>Vote:</b>	6 in favor and 0 opposed. <b>Motion Passed.</b>

**Attachment:** Doc.6868\_Ballot Review Sheet

#### 4.1.2 Doc6869, Revision to SEMI D38-0211 (Reapproved 0117) “Guide For Quality Area Of LCD Masks” with title change to “Guide For Quality Area Of Flat Panel Display (FPD) Masks”

<b>Motion:</b>	This is not a Safety Document, when all safety-related information is removed, the Document is still technically sound and complete. (Regulations ¶ 8.7.1)
<b>By / 2<sup>nd</sup>:</b>	Keitaro Kondo (HOYA) / Tadahiro Furukawa (Yamagata University)
<b>Discussion:</b>	None
<b>Vote:</b>	6 in favor and 0 opposed. <b>Motion Passed.</b>

<b>Motion:</b>	This Document passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.
<b>By / 2<sup>nd</sup>:</b>	Keitaro Kondo (HOYA) / Tadahiro Furukawa (Yamagata University)
<b>Discussion:</b>	None
<b>Vote:</b>	6 in favor and 0 opposed. <b>Motion Passed.</b>

**Attachment:** Doc.6869\_Ballot Review Sheet

#### 4.1.3 Doc6937, New Standard: TERMINOLOGY FOR FPD PHASE SHIFT MASK AND MASK BLANKS

<b>Motion:</b>	This is not a Safety Document, when all safety-related information is removed, the Document is still technically sound and complete. (Regulations ¶ 8.7.1)
<b>By / 2<sup>nd</sup>:</b>	Shohei Miyazaki (SK-Electronics)/ Keitaro Kondo (HOYA)
<b>Discussion:</b>	None
<b>Vote:</b>	5 in favor and 0 opposed. <b>Motion Passed.</b>

<b>Motion:</b>	This Document passed TC Chapter review with editorial changes and will be forwarded to the ISC A&R SC for procedural review.
<b>By / 2<sup>nd</sup>:</b>	Shohei Miyazaki (SK-Electronics)/ Keitaro Kondo (HOYA)
<b>Discussion:</b>	None
<b>Vote:</b>	5 in favor and 0 opposed. <b>Motion Passed.</b>

**Attachment:** Doc.6937\_Ballot Review Sheet

#### 4.1.4 Doc6912, Line Item Revision to SEMI D39-0704 (Reapproved 0117): “SPECIFICATION FOR MARKERS ON FPD POLARIZING FILMS”

<b>Motion:</b>	This is not a Safety Document, when all safety-related information is removed, the Document is still technically sound and complete. (Regulations ¶ 8.7.1)
<b>By / 2<sup>nd</sup>:</b>	Hiroshi Ishizuka (FUJIFILM) / Tadahiro Furukawa (Yamagata University)
<b>Discussion:</b>	None
<b>Vote:</b>	5 in favor and 0 opposed. <b>Motion Passed.</b>

<b>Motion:</b>	Line item 1 passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.
<b>By / 2<sup>nd</sup>:</b>	Hiroshi Ishizuka (FUJIFILM) / Tadahiro Furukawa (Yamagata University)
<b>Discussion:</b>	None
<b>Vote:</b>	5 in favor and 0 opposed. <b>Motion Passed.</b>

**Attachment:** Doc.6912 (Line Item)\_Ballot Review Sheet

**Action Item:** 20221014-01 (SEMI Staff) to send the ballot review sheets to the A&R

## 5. Subcommittee and Task Force Reports

### 5.1 <Flexible Display Task Force>

Tadahiro Furukawa (Yamagata University) reported for the task force that the next targets are under discussion.

### 5.2 <FPD Mask Task Force>

Keitaro Kondo (HOYA) reported for the task force that as attached.

**Attachment:** 05-02\_221007 Minutes FPD\_Mask\_TF

### 5.3 <FPD Materials & Components Maintenance Task Force>

Hiroshi Ishizuka (FUJIFILM) reported for the task force as attached.

Also, he explained about the SNARF for Line Item Revision to SEMI D39-0704 (Reapproved 0117):

“SPECIFICATION FOR MARKERS ON FPD POLARIZING FILMS”

**Attachment:** 05-03\_20221014Maintenance TF report

## 6. Old Business

6.1 Project period Review – None

6.2 5-year Review Check

Mami Nakajo (SEMI Japan) reported that there are the following documents at this moment.

SEMI D34-EN : SEMI D34-0710 (Reapproved 0117)

Please see Section 7

## 7. New Business

7.1 Proposal of New Activity

7.1.1 SNARF Proposal for Line Item Revision to SEMI D34-0710: “TEST METHOD FOR FPD POLARIZING FILMS”

Hiroshi Ishizuka (FUJIFILM) reported on this topic.

<b>Motion:</b>	To approve a new SNARF for Revision of SEMI D34-0710: “TEST METHOD FOR FPD POLARIZING FILMS”
<b>By / 2<sup>nd</sup>:</b>	Hiroshi Ishizuka (FUJIFILM) / Tadahiro Furukawa (Yamagata University)
<b>Discussion:</b>	None
<b>Vote:</b>	4 in favor and 0 opposed. <b>Motion Passed.</b>

**Attachment:** 07-01\_SNARF\_Line Item Revision to SEMI D34-0710\_20221014approved

**Action Item:** 20221014-02 FPD Materials & Components Maintenance Task Force to To prepare the Document #6977, Line Item Revision to SEMI D34-0710: “TEST METHOD FOR FPD POLARIZING FILMS” by the next TC Chapter Meeting

## 8. Action Item Review

8.1 Open Action Items

None

8.2 New Action Items

The TC Chapter reviewed the following items.

Item #	Assigned to	Details
20221014-01	Mami Nakajo (SEMI Japan)	To send the ballot review sheets to the A&R
20221014-02	FPD Materials & Components	To prepare the Document #6977, Line Item Revision to SEMI D34-0710: “TEST METHOD FOR FPD POLARIZING FILMS” by the next TC Chapter Meeting



	Maintenance Task Force	
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### 9. Next Meeting and Adjournment

The next FPD Materials & Components Japan TC Chapter meeting is scheduled as follows as

Date: Wednesday, January 25, 2023,

Time: 15:00-17:00[JST]

Place: OVTCCM / SEMI Japan office, Tokyo, Japan. (Hybrid)

See <http://www.semi.org/en/events> for the current list of meeting schedules.

Adjournment: [16:30]>.

Respectfully submitted by:

Mami Nakajo  
Standards & EHS  
SEMI Japan  
Phone: 81.3.3222.5949  
Email: mnakajo@semi.org

Minutes tentatively approved by:

Tadahiro Furukawa (Yamagata University), Co-chair	November 01,2022
Ryoichi Watanabe (Japan Display) , Co-chair	November 04,2022
Toshimasa Eguchi (Sumitomo Bakelite), Co-chair	November 04,2022

**Table 13 Index of Available Attachments<sup>#1</sup>**

<i>Title</i>	<i>Title</i>
01-01_RequiredElementNov2020Rev1-E&J-r1	05-03_20221014Maintenance TF report
02-01_20220610_FPD-M&C_Japan_MeetingMinutes	Doc.6868_Ballot Review Sheet
03-01_Liaison report_FPDM_KR_June2022	Doc.6869_Ballot Review Sheet
03-02_FPD-M Taiwan Liaison report_20221014	Doc.6912 (Line Item)_Ballot Review Sheet
03-03_Staff Report July 2022 v6_Jr1	Doc.6937_Ballot Review Sheet
05-02_221007 Minutes FPD_Mask_TF	07-01_SNARF_Line Item Revision to SEMI D34-0710_20221014approved

#1 Due to file size and delivery issues, attachments must be downloaded separately. A .zip file containing all attachments for these minutes is available at [www.semi.org](http://www.semi.org). For additional information or to obtain individual attachments, please contact [SEMI Staff Name] at the contact information above.