

Record of Letter Ballot Review by TC Chapter for Procedural Review

Region/Locale: **Japan**
 Global Technical Committee: **Assembly & Packaging**
 TC Chapter Cochairs: **Kazunori Kato / AiT, Masahiro Tsuriya / iNEMI**
 Standards staff: **Chie Yanagisawa**

	Scheduled in Background Statement	Actual
Date	10/16/2015	10/16/2015
Location	SEMI Japan office, Tokyo	SEMI Japan office, Tokyo

I. Document Number and Title

Document Number	Document Title
5835	New Standard: SPECIFICATION FOR ADHESIVE TRAY USED FOR THIN CHIP HANDLING

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	32	÷	53	=	60.4%	>=60%
Intercommittee Ballot	24					
Voting Interest Reject(s)	1		Total Voter with Rejects		1	
Voting Interest Accept(s)	24					

III. Rejects

Voting Interest Reject 1 (Voting Interest Name: NIST)

Voting Interest Reject 1- Voter Reject 1 (Voter: Richard Allen (NIST))

Negative 1 of Voting Interest Reject 1- Voter Reject 1

Negative	Referenced Section/ Paragraph	*TF/TC Chapter to fill in including text in the ballot if necessary.			
	Negative Text	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied. General comments: Perhaps there should be a table showing the data that should be collected as part of the experiment (similar to the list in the cited 2248)			
TF input (optional)		2248 is also not showing the experimental data. If it is needed, we can be able to add in the Doc.5836 that describes detail of measurement method of pick-up strength.			
Withdrawal (check one)	<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter.		GO TO "Related" subsection	
	<input type="checkbox"/>	Withdrawal document received by Standards staff on MM/DD/YYYY.		GO TO "Final" subsection → (A)	
Related	Motion and Reason (check one)	<input checked="" type="checkbox"/>	'Related' is mutually agreed upon. (Needs no Motion.)		GO TO "Persuasive" subsection
		<input type="checkbox"/>	Negative is not related. (Needs ≥2/3 votes to pass.)		
		Reason	XXXX		
	Motion by/2nd by	Name (Company)/Name (Company)			
	Discussion				
	Result of Vote (check one)	XX-XX; Motion passed/failed.			
<input type="checkbox"/>		[Negative is not related.] <2/3		GO TO "Persuasive" subsection	
	<input type="checkbox"/>	2/3 ≤ [Negative is not related.]		GO TO "Final" subsection → (B)	
Persuasive	Motion and Reason (check one)	<input type="checkbox"/>	Negative is related and persuasive. (Needs >1/3 votes to pass.)		
		<input checked="" type="checkbox"/>	Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)		
		Reason	It is not necessary for this specification to have a table showing the data that should be collected as part of the experiment.		
	Motion by/2nd by	Haruo Shimamoto (AIST) / Nobuhiro Shinozuka (Shin-Etsu Polymer)			
	Discussion	None			
	Result of Vote (check one)	12-0; Motion passed.			
<input type="checkbox"/>		[Negative is related and persuasive.] >1/3	Is a Technical Change Recommended	Y	GO TO "Address by Technical Change Option" subsection
	<input type="checkbox"/>	[Negative is related and not persuasive.] <2/3	?	N	GO TO "Final" subsection → (E)

		<input type="checkbox"/>	2/3 ≤ [Negative is related and not persuasive.] < 90%	GO TO "Final" subsection → (C)	
		<input checked="" type="checkbox"/>	90% ≤ [Negative is related and not persuasive.]	GO TO "Not Significant Finding Option" subsection	
Address by Technical Change Option	Technical Change Recommended by the TF				
	Note: Original section/paragraph number and at least one full sentence are required in "FROM" and "TO" fields.				
	1	Technical Change	FROM: Section/Paragraph XXX		
			TO: Section/Paragraph xxx		
			Justification (if necessary)		
	2	Technical Change	FROM: Section/Paragraph XXX		
			TO: Section/Paragraph xxx		
			Justification (if necessary)		
	Motion		Negative is addressed by the Technical Change.		
	Motion by/2nd by		Name (Company)/Name (Company)		
	Discussion				
	Result of Vote one (check one)		XX-XX; Motion passed/failed.		
		<input type="checkbox"/>	2/3 ≤ [Negative is addressed by the Technical Change.]	GO TO "Incorporation of the Technical Change" subsection	
		<input type="checkbox"/>	[Negative is not addressed by the Technical Change.] < 2/3	GO TO "Final" subsection → (E)	
	Incorporation of the Technical Change	Motion		To incorporate the Technical Change.	
Motion by/2nd by		Name (Company)/Name (Company)			
Discussion					
Result of Vote (check one)		XX-XX; Motion passed/failed.			
	<input type="checkbox"/>	90% ≤ [Agree to incorporate.]	GO TO "Final" subsection → (F)		
	<input type="checkbox"/>	[Disagree to incorporate.] > 10%	GO TO "Final" subsection → (E)		
Not Significant Finding Option	This option can only be used "if the TC Chapter finds a Negative not persuasive by a vote equal to or greater than 90% of the persons voting on the action". (Regulations ¶ 9.6.4.4.2)				
	Use of "Not significant finding option" (check one)	<input checked="" type="checkbox"/>	It is mutually agreed upon to term the Negative "not significant".	GO TO "Final" subsection → (D)	
		<input type="checkbox"/>	It is mutually agreed upon to term the Negative "significant".	GO TO "Final" subsection → (C)	
		<input type="checkbox"/>	Whether or not the Negative is "not significant" is decided by a vote.		
Motion		The Negative is "not significant".			

	Motion by/2nd by	Name (Company)/Name (Company)			
	Vote	<input type="checkbox"/>	XX-XX; Motion passed with simple majority	GO TO "Final" subsection → (D)	
<input type="checkbox"/>		XX-XX; Motion failed with simple majority	GO TO "Final" subsection → (C)		
Final	(check if applicable)	<input type="checkbox"/>	(A)	withdrawn (counted under h in disposition)	
		<input type="checkbox"/>	(B)	not related (counted under i in disposition)	
		<input type="checkbox"/>	(C)	related and not persuasive (significant)	
		<input checked="" type="checkbox"/>	(D)	not significant (counted under j in disposition)	
		<input type="checkbox"/>	(E)	related and persuasive and not addressed by Technical Change	DOCUMENT FAILS
		<input type="checkbox"/>	(F)	addressed by Technical Change (counted under k disposition)	
(check if applicable)	<input type="checkbox"/>	Comment generated. See Section V-(ii) Comment # X.			

Negative 2 of Voting Interest Reject 1- Voter Reject 1

Negative	Referenced Section/ Paragraph	*TF/TC Chapter to fill in including text in the ballot if necessary.			
	Negative Text	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied. General comments: I would expect to also see a note to capture if the adhesion strength exceeds the strength of the adhesion layer			
TF input (optional)		In this specification, tray is dedicated only for thin chip handling. When the adhesion strength exceed the adhesion layer, this tray is not suitable for thin chip pick-up.			
Withdrawal (check one)	<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter.		GO TO "Related" subsection	
	<input type="checkbox"/>	Withdrawal document received by Standards staff on MM/DD/YYYY.		GO TO "Final" subsection → (A)	
Related	Motion and Reason (check one)	<input checked="" type="checkbox"/>	'Related' is mutually agreed upon. (Needs no Motion.)		GO TO "Persuasive" subsection
		<input type="checkbox"/>	Negative is not related. (Needs ≥2/3 votes to pass.)		
		<input type="checkbox"/>	Reason	XXXX	
	Motion by/2nd by	Name (Company)/Name (Company)			
	Discussion				
Result of Vote (check one)	<input type="checkbox"/>	XX-XX; Motion passed/failed.			
	<input type="checkbox"/>	[Negative is not related.] <2/3		GO TO "Persuasive" subsection	
<input type="checkbox"/>	2/3 ≤ [Negative is not related.]			GO TO "Final" subsection → (B)	
Motion and Reason	<input type="checkbox"/>	Negative is related and persuasive. (Needs >1/3 votes to pass.)			

Persuasive	(check one)	<input checked="" type="checkbox"/>	Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)			
			Reason	There is no need for this specification to have that note. This specification does not define the strength of the adhesion layer, but defines the usage of adhesive tray in § 5.4 and so dedicated to the thin chip usage in the title itself.		
	Motion by/2nd by	Haruo Shimamoto (AIST) / Nobuhiro Shinozuka (Shin-Etsu Polymer)				
	Discussion	None				
	Result of Vote (check one)	12-0; Motion passed.				
		<input type="checkbox"/>	[Negative is related and persuasive.] >1/3	Is a Technical Change Recommended	<input type="checkbox"/>	Y GO TO “Address by Technical Change Option” subsection
		<input type="checkbox"/>	[Negative is related and not persuasive.] <2/3	?	<input type="checkbox"/>	N GO TO “Final” subsection → (E)
		<input type="checkbox"/>	2/3 ≤ [Negative is related and not persuasive.] <90%	(Y/N)		GO TO “Final” subsection → (C)
	<input checked="" type="checkbox"/>	90% ≤ [Negative is related and not persuasive.]			GO TO “Not Significant Finding Option” subsection	
Address by Technical Change Option	Technical Change Recommended by the TF					
	Note: Original section/paragraph number and at least one full sentence are required in “FROM” and “TO” fields.					
	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	Negative is addressed by the Technical Change.				
	Motion by/2nd by	Name (Company)/Name (Company)				
Discussion						
Result of Vote (check one)	XX-XX; Motion passed/failed.					
		<input type="checkbox"/>	2/3 ≤ [Negative is addressed by the Technical Change.]			GO TO “Incorporation of the Technical Change” subsection
	<input type="checkbox"/>	[Negative is not addressed by the Technical Change.] < 2/3			GO TO “Final” subsection → (E)	
Incorporati on of the	Motion	To incorporate the Technical Change.				
	Motion by/2nd by	Name (Company)/Name (Company)				
	Discussion					

		XX-XX; Motion passed/failed.		
	Result of Vote (check one)	<input type="checkbox"/> 90% ≤ [Agree to incorporate.]	GO TO "Final" subsection → (F)	
		<input type="checkbox"/> [Disagree to incorporate.] > 10%	GO TO "Final" subsection → (E)	
Not Significant Finding Option	This option can only be used "if the TC Chapter finds a Negative not persuasive by a vote equal to or greater than 90% of the persons voting on the action". (Regulations ¶ 9.6.4.4.2)			
	Use of "Not significant finding option" (check one)	<input checked="" type="checkbox"/>	It is mutually agreed upon to term the Negative "not significant".	GO TO "Final" subsection → (D)
		<input type="checkbox"/>	It is mutually agreed upon to term the Negative "significant".	GO TO "Final" subsection → (C)
		<input type="checkbox"/>	Whether or not the Negative is "not significant" is decided by a vote.	
	Motion	The Negative is "not significant".		
	Motion by/2nd by	Name (Company)/Name (Company)		
	Vote	<input type="checkbox"/>	XX-XX; Motion passed with simple majority	GO TO "Final" subsection → (D)
<input type="checkbox"/>		XX-XX; Motion failed with simple majority	GO TO "Final" subsection → (C)	
Final	(check if applicable)	<input type="checkbox"/>	(A) withdrawn (counted under h in disposition)	
		<input type="checkbox"/>	(B) not related (counted under i in disposition)	
		<input type="checkbox"/>	(C) related and not persuasive (significant)	
		<input checked="" type="checkbox"/>	(D) not significant (counted under j in disposition)	
		<input type="checkbox"/>	(E) related and persuasive and not addressed by Technical Change	DOCUMENT FAILS
		<input type="checkbox"/>	(F) addressed by Technical Change (counted under k disposition)	
(check if applicable)	<input type="checkbox"/>	Comment generated. See Section V-(ii) Comment # X.		

Negative 3 of Voting Interest Reject 1- Voter Reject 1

Negative	Referenced Section/ Paragraph	*TF/TC Chapter to fill in including text in the ballot if necessary.				
	Negative Text	<p>4.2.1 adhesive trays — trays which have adhesion layer to hold thin chips. Adhesive trays are used for manufacturing, shipping and storage of thin chips.</p> <p>*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.</p> <p>Section 4.2.1: Since this is the first SEMI standard to define adhesive trays (as noted in the Background Statement), even though they have been widely used in the industry for many years, I would write this definition more broadly. I would suggest the following wording:</p> <p>“adhesive trays – trays with an adhesion layer to hold materials, such as IC chips, in place during manufacturing, shipping, and/or storage of the materials.”</p>				
TF input (optional)		In this specification, the tray is only dedicated for thin chip handling usage, so don't need to define widely.				
Withdrawal (check one)	<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter.		GO TO “Related” subsection		
	<input type="checkbox"/>	Withdrawal document received by Standards staff on MM/DD/YYYY.		GO TO “Final” subsection → (A)		
Related	Motion and Reason (check one)	<input checked="" type="checkbox"/>	‘Related’ is mutually agreed upon. (Needs no Motion.)		GO TO “Persuasive” subsection	
		<input type="checkbox"/>	Negative is not related. (Needs ≥2/3 votes to pass.)			
		Reason	XXXX			
	Motion by/2nd by	Name (Company)/Name (Company)				
	Discussion					
	Result of Vote (check one)	<input type="checkbox"/>	[Negative is not related.] <2/3		GO TO “Persuasive” subsection	
<input type="checkbox"/>		2/3 ≤ [Negative is not related.]		GO TO “Final” subsection → (B)		
Persuasive	Motion and Reason (check one)	<input type="checkbox"/>	Negative is related and persuasive. (Needs >1/3 votes to pass.)			
		<input checked="" type="checkbox"/>	Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)			
		Reason	Adhesive trays have been widely used in the industry, but there is no definition in Terminology section of any SEMI Standards document. This specification defines the usage of adhesive tray only for thin chip handling.			
	Motion by/2nd by	Haruo Shimamoto (AIST) / Nobuhiro Shinozuka (Shin-Etsu Polymer)				
	Discussion	None				
	Result of Vote (check one)	<input type="checkbox"/>	[Negative is related and persuasive.] >1/3	Is a Technical Change Recommended	Y	GO TO “Address by Technical Change Option” subsection
<input type="checkbox"/>		[Negative is related and not persuasive.] <2/3	?	N	GO TO “Final” subsection → (E)	

		<input type="checkbox"/>	2/3 ≤ [Negative is related and not persuasive.] < 90%	GO TO "Final" subsection → (C)	
		<input checked="" type="checkbox"/>	90% ≤ [Negative is related and not persuasive.]	GO TO "Not Significant Finding Option" subsection	
Address by Technical Change Option	Technical Change Recommended by the TF				
	Note: Original section/paragraph number and at least one full sentence are required in "FROM" and "TO" fields.				
	1	Technical Change	FROM: Section/Paragraph XXX		
			TO: Section/Paragraph xxx		
			Justification (if necessary)		
	2	Technical Change	FROM: Section/Paragraph XXX		
			TO: Section/Paragraph xxx		
			Justification (if necessary)		
	Motion		Negative is addressed by the Technical Change.		
	Motion by/2nd by		Name (Company)/Name (Company)		
	Discussion				
	Result of Vote one (check one)		XX-XX; Motion passed/failed.		
			<input type="checkbox"/>	2/3 ≤ [Negative is addressed by the Technical Change.]	GO TO "Incorporation of the Technical Change" subsection
			<input type="checkbox"/>	[Negative is not addressed by the Technical Change.] < 2/3	GO TO "Final" subsection → (E)
	Incorporation of the Technical Change	Motion		To incorporate the Technical Change.	
Motion by/2nd by		Name (Company)/Name (Company)			
Discussion					
Result of Vote (check one)		XX-XX; Motion passed/failed.			
		<input type="checkbox"/>	90% ≤ [Agree to incorporate.]	GO TO "Final" subsection → (F)	
		<input type="checkbox"/>	[Disagree to incorporate.] > 10%	GO TO "Final" subsection → (E)	
Not Significant Finding Option	This option can only be used "if the TC Chapter finds a Negative not persuasive by a vote equal to or greater than 90% of the persons voting on the action". (Regulations ¶ 9.6.4.4.2)				
	Use of "Not significant finding option" (check one)	<input checked="" type="checkbox"/>	It is mutually agreed upon to term the Negative "not significant".	GO TO "Final" subsection → (D)	
		<input type="checkbox"/>	It is mutually agreed upon to term the Negative "significant".	GO TO "Final" subsection → (C)	
			Whether or not the Negative is "not significant" is decided by a vote.		
Motion		The Negative is "not significant".			

	Motion by/2nd by	Name (Company)/Name (Company)			
	Vote	<input type="checkbox"/>	XX-XX; Motion passed with simple majority	GO TO "Final" subsection → (D)	
<input type="checkbox"/>		XX-XX; Motion failed with simple majority	GO TO "Final" subsection → (C)		
Final	(check if applicable)	<input type="checkbox"/>	(A)	withdrawn (counted under h in disposition)	
		<input type="checkbox"/>	(B)	not related (counted under i in disposition)	
		<input type="checkbox"/>	(C)	related and not persuasive (significant)	
		<input checked="" type="checkbox"/>	(D)	not significant (counted under j in disposition)	
		<input type="checkbox"/>	(E)	related and persuasive and not addressed by Technical Change	DOCUMENT FAILS
		<input type="checkbox"/>	(F)	addressed by Technical Change (counted under k disposition)	
	(check if applicable)	<input type="checkbox"/>	Comment generated. See Section V-(ii) Comment # <u>X</u> .		

Negative 4 of Voting Interest Reject 1- Voter Reject 1

Negative	Referenced Section/ Paragraph	*TF/TC Chapter to fill in including text in the ballot if necessary.			
	Negative Text	<p>5.2.1.3 Size of collet — A collet which is the same size as or slightly larger than a chip shall be used. The collet shall not come into contact with the adhesive area of the tray.</p> <p>*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.</p> <p>Section 5.2.1.3: Size of collet I think the term “slightly larger” needs to be more specific; in particular, since the collet is not to be allowed to contact the adhesive area, suggest that limits should be written in on the allowed size of the collet.</p>			
TF input (optional)		We show the relation of size in the figure. And prevents from limitation of user’s flexibility to choose the collet.			
Withdrawal (check one)	<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter.		GO TO “Related” subsection	
	<input type="checkbox"/>	Withdrawal document received by Standards staff on MM/DD/YYYY.		GO TO “Final” subsection → (A)	
Related	Motion and Reason (check one)	<input checked="" type="checkbox"/>	‘Related’ is mutually agreed upon. (Needs no Motion.)		GO TO “Persuasive” subsection
		<input type="checkbox"/>	Negative is not related. (Needs ≥2/3 votes to pass.)		
		Reason	XXXX		
	Motion by/2nd by	Name (Company)/Name (Company)			
	Discussion				
	Result of Vote (check one)	<input type="checkbox"/>	[Negative is not related.] <2/3		GO TO “Persuasive” subsection
<input type="checkbox"/>		2/3 ≤ [Negative is not related.]		GO TO “Final” subsection → (B)	
Persuasive	Motion and Reason (check one)	<input type="checkbox"/>	Negative is related and persuasive. (Needs >1/3 votes to pass.)		
		<input checked="" type="checkbox"/>	Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)		
		Reason	The expression of “slightly larger” means this specification does not define the limit so that it could be possible for the users of this specification to have options of the size of collet. About the notice of collet size, not to contact the adhesive area is roughly described in the Fig.3.		
	Motion by/2nd by	Haruo Shimamoto (AIST) / Nobuhiro Shinozuka (Shin-Etsu Polymer)			
	Discussion	None			
	Result of Vote (check one)	<input type="checkbox"/>	[Negative is related and persuasive.] >1/3	Is a Technical Change Recommended	Y
<input type="checkbox"/>		[Negative is related and not persuasive.] <2/3	?	N	GO TO “Final” subsection → (E)
<input type="checkbox"/>		2/3 ≤ [Negative is related and not persuasive.] <90%	GO TO “Final” subsection → (C)		

		<input checked="" type="checkbox"/>	90% ≤ [Negative is related and not persuasive.]	GO TO “Not Significant Finding Option” subsection	
Address by Technical Change Option	Technical Change Recommended by the TF				
	Note: Original section/paragraph number and at least one full sentence are required in “FROM” and “TO” fields.				
	Technical 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		Negative is addressed by the Technical Change.		
	Motion by/2nd by		Name (Company)/Name (Company)		
	Discussion				
	Result of Vote (check one)		XX-XX; Motion passed/failed.		
			<input type="checkbox"/>	2/3 ≤ [Negative is addressed by the Technical Change.]	GO TO “Incorporation of the Technical Change” subsection
			<input type="checkbox"/>	[Negative is not addressed by the Technical Change.] < 2/3	GO TO “Final” subsection → (E)
Incorporation of the Technical Change	Motion		To incorporate the Technical Change.		
	Motion by/2nd by		Name (Company)/Name (Company)		
	Discussion				
	Result of Vote (check one)		XX-XX; Motion passed/failed.		
			<input type="checkbox"/>	90% ≤ [Agree to incorporate.]	GO TO “Final” subsection → (F)
		<input type="checkbox"/>	[Disagree to incorporate.] > 10%	GO TO “Final” subsection → (E)	
Not Significant Finding Option	This option can only be used “if the TC Chapter finds a Negative not persuasive by a vote equal to or greater than 90% of the persons voting on the action”. (Regulations ¶ 9.6.4.4.2)				
	Use of “Not significant finding option” (check one)	<input checked="" type="checkbox"/>	It is mutually agreed upon to term the Negative “not significant”.		GO TO “Final” subsection → (D)
		<input type="checkbox"/>	It is mutually agreed upon to term the Negative “significant”.		GO TO “Final” subsection → (C)
		<input type="checkbox"/>	Whether or not the Negative is “not significant” is decided by a vote.		
	Motion		The Negative is “not significant”.		
Motion by/2nd by		Name (Company)/Name (Company)			

	Vote	<input type="checkbox"/>	XX-XX; Motion passed with simple majority	GO TO "Final" subsection → (D)	
		<input type="checkbox"/>	XX-XX; Motion failed with simple majority	GO TO "Final" subsection → (C)	
Final	(check if applicable)	<input type="checkbox"/>	(A)	withdrawn (counted under h in disposition)	
		<input type="checkbox"/>	(B)	not related (counted under i in disposition)	
		<input type="checkbox"/>	(C)	related and not persuasive (significant)	
		<input checked="" type="checkbox"/>	(D)	not significant (counted under j in disposition)	
		<input type="checkbox"/>	(E)	related and persuasive and not addressed by Technical Change	DOCUMENT FAILS
		<input type="checkbox"/>	(F)	addressed by Technical Change (counted under k disposition)	
	(check if applicable)	<input type="checkbox"/>	Comment generated. See Section V-(ii) Comment # X.		

Negative 5 of Voting Interest Reject 1- Voter Reject 1

	Referenced Section/ Paragraph	*TF/TC Chapter to fill in including text in the ballot if necessary.	
		5.3.2.1 Collet position — Place the collet on the chip. Hold the chip by the collet. The chip shall be suctioned or adhered by the collet. See Figure 3 for side view and sizes.	
Negative	Negative Text	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.	
		<p>Section 5.3.2.1: “Collet position — Place the collet on the chip. Hold the chip by the collet. The chip shall be suctioned <u>or adhered</u> by the collet. See Figure 3 for side view and sizes.”</p> <p>Could you clarify what is meant by the bolded clause? Is it a gluing process or other semi-permanent method?</p> <p>=====</p> <p>Email by the voter on October 16, 2015</p> <p>Dear Chie Yanagisawa,</p> <p>Thanks to the Task Force and Committee for considering my comments to the ballot.</p> <p>My concern about section 5.3.2.1 was that I do not find the wording to be clear. My first reading, which this part of my negative vote was based on, is that this description allows the chip to be adhered to the collet for placement on and, then later, for removal from the adhesive tray using either suction or an alternate method (could include, for example, glue, electrostatic, etc.). If this is the case, I think such other adhesion techniques would introduce issues with the measurement procedure and results and this should be discussed in the document. If there is an alternative adhesion technique which works, then it should be specified explicitly. I will note that the text of the rest of the document implies that the collet uses suction to adhere the chip for placement and removal from the adhesive tray.</p> <p>In re-reading the ballot this morning, I thought that the intention might be to say something like:</p> <p>5.3.2.1 Collet position — Center the collet over the chip and apply suction to adhere the chip to the collet. See Figure 3 for side view and sizes.</p> <p>Also, in re-reading the document this morning, I see that there is similar wording in section 5.2.1.2. A similar change to that in the paragraph above would be something like:</p> <p>5.2.1.2 Collet — apparatus for placing and removing the chip from the adhesive tray, which holds the chip in place during motion by suction</p> <p>I am sorry that my initial comments to the ballot on this issue weren’t clear and I hope the above explanation helps. If you have any additional questions before the meeting, please email me and copy my personal email address (raasqrd@live.com, cc’d to this message), which I am more likely to read outside of business hours. I will probably see emails to this address received until about 10:45 pm EDT/11:45 am JST.</p> <p>All the best, -Rich</p>	
	TF input (optional)	There is no need to define the details in order that a person to measure could choose “suctioned” or “adhered” as a test method.	
	Withdrawal (check one)	<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter. GO TO “Related” subsection
		<input type="checkbox"/>	Withdrawal document received by Standards staff on MM/DD/YYYY. GO TO “Final” subsection → (A)

Related	Motion and Reason (check one)	<input checked="" type="checkbox"/>	‘Related’ is mutually agreed upon. (Needs no Motion.)		GO TO “Persuasive” subsection		
		<input type="checkbox"/>	Negative is not related. (Needs ≥2/3 votes to pass.)				
		<input type="checkbox"/>	Reason				
	Motion by/2nd by	Name (Company)/Name (Company)					
	Discussion						
Persuasive	Motion and Reason (check one)	<input type="checkbox"/>	Negative is related and persuasive. (Needs >1/3 votes to pass.)				
		<input checked="" type="checkbox"/>	Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)				
		<input type="checkbox"/>	Reason	The expressions of the texts of 5.3.2.1 could be understandable as they are.			
	Motion by/2nd by	Haruo Shimamoto (AIST) / Nobuhiro Shinozuka (Shin-Etsu Polymer)					
Discussion	None						
Address by Technical Change Option	Result of Vote (check one)	<input type="checkbox"/>	[Negative is related and persuasive.] >1/3	Is a Technical Change Recommended	Y	GO TO “Address by Technical Change Option” subsection	
		<input type="checkbox"/>	[Negative is related and not persuasive.] <2/3	?	N	GO TO “Final” subsection → (E)	
		<input type="checkbox"/>	2/3 ≤ [Negative is related and not persuasive.] <90%	GO TO “Final” subsection → (C)			
		<input checked="" type="checkbox"/>	90% ≤ [Negative is related and not persuasive.]	GO TO “Not Significant Finding Option” subsection			
	Technical Change	Technical Change Recommended by the TF					
1	Note: Original section/paragraph number and at least one full sentence are required in “FROM” and “TO” fields.						
	FROM: Section/Paragraph XXX						
	TO: Section/Paragraph xxx						
	Justification (If necessary)						
2	FROM: Section/Paragraph XXX						
	TO: Section/Paragraph xxx						

		Justification (if necessary)		
	Motion	Negative is addressed by the Technical Change.		
	Motion by/2nd by	Name (Company)/Name (Company)		
	Discussion			
	Result of Vote one (check one)	<input type="checkbox"/> 2/3 ≤ [Negative is addressed by the Technical Change.]	GO TO "Incorporation of the Technical Change" subsection	
		<input type="checkbox"/> [Negative is not addressed by the Technical Change.] < 2/3	GO TO "Final" subsection → (E)	
Incorporation of the Technical Change	Motion	To incorporate the Technical Change.		
	Motion by/2nd by	Name (Company)/Name (Company)		
	Discussion			
	Result of Vote (check one)	<input type="checkbox"/> 90% ≤ [Agree to incorporate.]	GO TO "Final" subsection → (F)	
<input type="checkbox"/> [Disagree to incorporate.] > 10%		GO TO "Final" subsection → (E)		
Not Significant Finding Option	This option can only be used "if the TC Chapter finds a Negative not persuasive by a vote equal to or greater than 90% of the persons voting on the action". (Regulations ¶ 9.6.4.4.2)			
	Use of "Not significant finding option" (check one)	<input checked="" type="checkbox"/> It is mutually agreed upon to term the Negative "not significant".	GO TO "Final" subsection → (D)	
		<input type="checkbox"/> It is mutually agreed upon to term the Negative "significant".	GO TO "Final" subsection → (C)	
		<input type="checkbox"/> Whether or not the Negative is "not significant" is decided by a vote.		
	Motion	The Negative is "not significant".		
	Motion by/2nd by	Name (Company)/Name (Company)		
Vote	<input type="checkbox"/> XX-XX; Motion passed with simple majority	GO TO "Final" subsection → (D)		
	<input type="checkbox"/> XX-XX; Motion failed with simple majority	GO TO "Final" subsection → (C)		
Final	(check if applicable)	<input type="checkbox"/> (A)	withdrawn (counted under h in disposition)	
		<input type="checkbox"/> (B)	not related (counted under i in disposition)	
		<input type="checkbox"/> (C)	related and not persuasive (significant)	
		<input checked="" type="checkbox"/> (D)	not significant (counted under j in disposition)	
		<input type="checkbox"/> (E)	related and persuasive and not addressed by Technical Change	DOCUMENT FAILS
		<input type="checkbox"/> (F)	addressed by Technical Change (counted under k disposition)	
(check if applicable)	<input type="checkbox"/>	Comment generated. See Section V-(ii) Comment # X.		

Disposition of Voting Interest Reject 1

5	Original number of Negatives	(g)	
0	# of Negatives withdrawn	(h)	
0	# of Negatives found not related	(i)	
5	# of Negatives found not significant	(j)	
0	# of Negatives addressed by Technical Change (Negative becomes not significant)	(k)	
Final	X	$g - (h + i + j + k) = 0$	Reject is Not Valid and is not included in the denominator of § VI. <i>Approval Conditions Check</i>
		$g - (h + i + j + k) > 0$	Reject is included in the denominator of § VI. <i>Approval Conditions Check</i>
		Reject without a Negative	Not Valid

Note: If all of the Negatives included with a Reject Vote are withdrawn, determined to be not related, or determined to be not significant, the Reject Vote is not valid. (*Regulations ¶ 9.4.3.3*)

Note: A Negative addressed by a technical change is automatically considered to be not significant. (*Regulations ¶ 9.6.4.4.2*)

IV. Other Technical Issues

There was no Other Technical Issues for Ballot 5835.

V. Comments

There was no vote with comment received for Ballot 5835.

V-(ii) Comments Created by handling Negative Comment (Created by handling Negative) NC – 1

Comment	*TF/TC Chapter to fill in	
	Section 3.2: I don't think it is necessary to specify these particular published versions of the ISO documents (ISO 2248:1985 and ISO 13355:2001). That is, citing these without date and these are the most recent revisions (see the wording in the "NOTICE").	
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 checked="" type="checkbox"/>	Case 1: No vote in this section : <u>To be included and voted on in § VI. Editorial Changes other than those dealt with in Section V.</u>
		Case 2: Voted in this section : Original section number and at least one full sentence are required in "FROM" and "TO" fields.
Editorial Change	1	FROM: Section/Paragraph ISO 2248:1985 — Packaging: Complete, Filled Transport Packages–Vertical Impact Test by Dropping ISO 13355:2001 — Packaging: Complete, Filled Transport Packages and Unit Loads –Vertical Random Vibration Test
		TO: Section/Paragraph ISO 2248 — Packaging: Complete, Filled Transport Packages–Vertical Impact Test by Dropping ISO 13355 — Packaging: Complete, Filled Transport Packages and Unit Loads –Vertical Random Vibration Test
		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	Haruo Shimamoto (AIST) / Nobuhiro Shinozuka (Shin-Etsu Polymer)	
Discussion	None	
Vote	13-0; Motion passed.	

Comment (Created by handling Negative) NC – 2

Comment	*TF/TC Chapter to fill in	
	Section 4.1.1: Please use “3DS-IC” to conform to other SEMI usages (such as the name of the technical committee)	
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 in § VI. Editorial Changes other than those dealt with in Section 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.
	<input type="checkbox"/>	
	<input type="checkbox"/>	
Editorial Change	1	FROM: Section/Paragraph 4.1.1 3Ds IC — Three-dimensional stacked integrated circuit
		TO: Section/Paragraph 4.1.1 3DS IC — Three-dimensional stacked integrated circuit
		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	Haruo Shimamoto (AIST) / Nobuhiro Shinozuka (Shin-Etsu Polymer)	
Discussion	None	
Vote	13-0; Motion passed.	

Comment (Created by handling Negative) NC – 3

Comment	*TF/TC Chapter to fill in		
	Section 5.6.5: I would suggest the following wording: “Step 5 – After one week, measure the adhesive strength using the second chip on each of the five trays using the procedure described in 5.3.2.”		
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 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)	Case 1: No vote in this section : To be included and voted on in § VI. Editorial Changes other than those dealt with in Section V.	
		Case 2: Voted in this section : Original section number and at least one full sentence are required in “FROM” and “TO” fields.	
	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.		

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

There was no Editorial Changes other than those dealt with in Section V for Ballot 5835.

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	=	24	/	24	=	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</i> ¶ 8.7.1)
	<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</i> ¶ 8.7.2)
	<input type="checkbox"/>	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		Haruo Shimamoto (AIST) / Nobuhiro Shinozuka (Shin-Etsu Polymer)
Discussion		None
Vote		12-0; 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.

- 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. (*Regulations* ¶ 8.8.1)

X	No potentially material patented technology or reproduction of copyrighted items are known.	GO TO SECTION 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	<input type="checkbox"/>	Ask ISC for special permission to publish.
	<input type="checkbox"/>	Quit activity.
	<input type="checkbox"/>	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	<input type="checkbox"/>	Motion Passed
	<input type="checkbox"/>	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	<input type="checkbox"/>	This Document passed TC Chapter review as balloted and will be forwarded to the A&R SC for procedural review.
	X	This Document passed TC Chapter review with editorial changes and will be forwarded to the A&R SC for procedural review.
	<input type="checkbox"/>	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.
	<input type="checkbox"/>	This Document failed TC Chapter review and will be returned to the TF for rework.
	<input type="checkbox"/>	This Document failed TC Chapter review and work will be discontinued.
Motion by/2nd by	Haruo Shimamoto (AIST) / Nobuhiro Shinozuka (Shin-Etsu Polymer)	
Discussion	None	
Vote	13-0	
Final Action	X	Motion passed
	<input type="checkbox"/>	Motion failed

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

A&R	<input type="checkbox"/>	Approved for publication
	<input type="checkbox"/>	Approved pending for acceptance of the Ratification Ballot
	<input type="checkbox"/>	Not approved
	Reason:	