

Global Tape Forum (GTF) Meeting Minutes

Date: 17 April 2023

Time: 9.00 – 12.30

Venue: Brussels Marriott Hotel
Grand Place, Brussels, Belgium

Present:

1. Michel Merkx, GTF Vice Chairman of GTF, PSTC Past President
2. Hu Yang, CATIA Information Department Manager
3. Kensei Takahashi, JATMA Secretary General
4. Akiyoshi Masuda, JATMA Technical Committee Chairman
5. Prof. Dr. The-Pai Lin, TAAT Technical Consultant
6. Dr. Chi-Yue Wu, TAAT Technical Consultant
7. Evert Smit, Afera President
8. Reinhard Storbeck, Afera Technical Committee Chairman
9. Astrid Lejeune, GTF Head of Secretariat, Afera Secretary General
10. Karsten Seitz, Afera Standardisation Consultant
11. Bathsheba Fulton, Afera Communications Officer

Chairman:

Reinhard Storbeck, in the absence of GTF Chairman Michael Yang, CATIA Secretary General

Secretary:

Astrid Lejeune

Date of Next Meeting:

Wednesday, 24 April 2024 at 9.00 in Jeurong Hotel Shanghai in Shanghai, China, hosted by CATIA

(registration taking place the day before from 14.00-17.30, followed by dinner at 18h). The 2024 China Adhesive Tape Forum will take place on 25-26 April. See note in agenda item 7.1.

Agenda

1. Welcome
2. Formalities (Competition Law Compliance, Adoption of Agenda)
3. Introduction of participants (representatives from Europe, North America, Japan, Taiwan and China)
4. New release of *Afera Test Methods Manual*
5. New Afera Test Method "Dynamic Shear" (presentation of the TM, discussion on adoption of the TM by other GTF Members)
6. GTF Test Methods, areas for improvement (finding of Afera TM-WG, resulting actions)

7. Introduction of 7th GTF & GTMC Meetings at the 2024 China Adhesive Tape Forum (agenda points for 2024 GTF & GTMC Meetings)
8. Additional business
9. Closing, next Meetings.

Note:

- Refer to the **PPT presentations** co-ordinating with these Minutes
- **Red, highlighted** names denote expected actions.

1. Welcome

- 1.1 ES opened the Meeting by welcoming the group of eleven international delegates to Brussels, expressing his gratefulness that all 5 GTF Members were present in the Meeting room for this Pre-Meeting of the 7th GTF & GTMC Meetings, which will take place in 2024 in Shanghai. The last time the GTF Members met was 5 years ago. This could not be helped, and today's Meeting served as a re-start of working more closely together again. Here the Members would discuss their current status, plans for the next 1-3 years and where they need alignment, so next year's Meeting will be successful, because it will be so well organised. See attached **GTF Pre-Meeting Opening 17 April 2023** PPT.

2. Formalities

- 2.1 AL reviewed Afera's Competition Law Compliance Policy to those present, who agreed unanimously to abide by it. RS then welcomed the participants and reviewed the Meeting Agenda, the final version of which had been sent to all attendees via email on 14 April. See attached **Agenda GTF-GTMC Meeting 2023** doc.

3. Introduction of participants (representatives from Europe, North America, Japan, Taiwan and China)

- 3.1 Afera >
 - KS presented the European Adhesive Tape Association's Next-Level Test Methods Working Group (TM-WG), including its makeup, tasks and activities. See **Afera Next-Level Test Methods Work Group** PPT. Its current topics include the development of a Static Shear TM for joints bonded with double-sided tapes, a guidance of advanced use of Static Shear TMs, preparation for the revision of the Peel Adhesion TM GTF 6004, and clarification of the impact of the new Capi TM for recyclability of fibre-based packaging on tapes.
- 3.2 PSTC >
 - MM presented an overview of the Pressure Sensitive Tape Council of North America: See **PSTC Overview** PPT
 - Membership consists of 22 tape producers and 29 suppliers (affiliated members).
 - One of their five organisational pillars is "Environmental Health & Safety", which has 2 committees, "regulatory" and "test methods".

- TM committee members include Kiran Malhotra (retired, chair), Roland Horst (Berry Global), Nestor Hansen (Total Energies) and Laura Donkus (Dow Chem Consultants). They will reset and review the TM committee activities and priorities during their Tape Week in May 2023.

3.3 JATMA >

- KT presented an overview of the Japanese Adhesive Tapes Manufacturers Association: See **JATMA Overview** PPT
 - Membership consists of fourteen adhesive tape manufacturers and sales companies, and 78 supporting companies related to the adhesive tapes business.
 - Technical committee has two sub-committees dedicated to "standards" and "information". In addition to developing Japanese industrial standards for tapes, of which they have sixteen, they aim to harmonise their TMs with the GTF.
 - They must report their emissions levels to the government, which till now only takes note of them.
 - Because the 2020 GTF & GTMC Meetings in Osaka were cancelled due to the pandemic, JATMA proposes hosting the 2026 Meetings in Tokyo. See agenda item 8.1.

3.4 CATIA >

- HY presented an overview of the China Adhesives and Tape Industry Association
 - Membership of 380 consists of adhesives manufacturers, and, since 2012, tape producers.
 - Committees include "hot melt", "waterborne", "polymers", "emulsion", etc. If they produce a TM, it is required within the industry.

3.5 TAAT >

- T-PL presented an overview of the Taiwan Regional Association of Adhesive Tape Manufacturers: See **TAAT Overview** PPT
 - Membership consists of 37 exclusively tape producing companies and no suppliers.
 - They would like to co-operate with the entire adhesive tape supply chain on issues such as recycling of protective film and especially polyester to improve carbon footprint, and biodegradable PEFs. Like all the regional players, they would like to expand their markets. They have been in touch with Michael Yang about collaborating more with Afera.
 - They aim to institute the Chinese National Standards (CNS) for the adhesive tape industry in Taiwan.

4. **New release of Afera Test Methods Manual**

- 4.1 KS presented the newest version (January 2023) of Afera's catalogue of TMs for adhesive tapes, which can be found, along with its release details, [here](#). See **Afera Test Methods Manual Revision Overview** PPT for his explanation of the revision process.

5. New Afera TM "Dynamic Shear" (presentation of the TM, discussion on adoption of the TM by other GTF Members)

- 5.1 KS presented Afera's newly developed TM for determining the dynamic shear strength of double-sided PSA tapes, including how and why it was developed and the results of two series of round robin testing. See **New Afera Dynamic Shear TM Overview** PPT for details.

The TM, which is a compromise of internal Afera Member Company methods and will be called Afera 4029, is important for three reasons: 1) When you look at adhesives, the standard set of data is lap shear strength (dynamic shear) strength, which everyone refers to, so you have a direct comparison; 2) When engineers construct something, they think more in terms of dynamic than static shear; and 3) It is better to have both to paint a complete picture.

- MM recommended that a precision statement is added to the TM, to which everyone agreed.
- CATIA has a similar TM but with a bonding area of 50 x 12 mm.
- JATMA has this TM but calls it Static Shear. They noted that it is important to have air between the substrate and tape.
- **The TM is open for adoption as by all GTF Members once you have received the finalised version from KS.** We may think of otherwise modifying it or developing subversions within the GTF.

6. GTF Test Methods, areas for improvement (finding of Afera TM-WG, resulting actions)

- 6.1 KS presented his proposal to focus on improving GTF 6004 (Afera 5001, PSTC 101, ISO 29862), as this TM is up for a 5-yearly review at the ISO in 2023, offering a chance to adjust some aspects of the norm to be more realistic. See **GTF Test Methods, Areas for Improvement PPT** for details.

- **All GTF Members are requested to initiate a vote in favour of revising the norm in their respective national standardisation bodies in the ISO.**
- **KS will send a list of proposals for amendments (DIN comment table) to all Meeting participants so that each GTF Member can meet internally about whether to act accordingly, contacting their national assemblies and then feeding input directly to the ISO.** KS mentioned that the deadline for German input is in July. Could the other regions work within this timeframe? All participants indicated they could but did not know that exact terms of liaising with the ISO. **Each GTF Member will have their standardisation officer contact KS so he may put them in contact with the correct ISO liaison for their country.**
- **MM will communicate to KS what the latest version of PSTC's Test Manual is.**

7. Introduction of 7th GTF & GTMC Meetings at the 2024 China Adhesive Tape Forum (agenda points for 2024 GTF & GTMC Meetings)

7.1 HY presented CATIA's plans for the 2024 Adhesive Tape Forum to take place from 12 to 14 June in Shanghai. The theme of this technical seminar, also referred to as the "2024 China Adhesive Tape Innovation Technology and Application Development Forum" is innovation, harmonisation and sustainability. During this event, which is expected to attract 350+ attendees, the Chinese Association will host the 7th GTF & GTMC Meetings on 12 June. See **7th GTF & GTMC Meetings and 2024 China Adhesive Tape Forum 最终版** PPT for details.

- Registration fees will be waived for three delegates from each of the GTF Member Associations. There will be no charge for participation any of the GTF & GTMC activities.
- Call for Papers: Of a total of 30-45 lectures scheduled to be given on 13 and 14 June, **3 papers are expected from each of the GTF Member Associations.** Abstracts are due on 31 December 2023, and full papers must be submitted by 30 April 2024.

In the meantime, China's technical forum has been moved to 25-26 April, and the preceding GTF & GTMC Meetings on 24 April.

7.2 Agenda points for 2024 GTF & GTMC Meetings >

- Collecting of annual report/market data: **AL/ES will ask AWA Alexander Watson Associates to present these figures on behalf of the U.S. and Europe. We should ask them to focus in on agreed-upon parameters (among the Member Associations) and illustrate what we would like to share. HY and KT agreed that they would discuss these parameters and present their feedback to the group.**
- Probe Tack TM (ASTM D2979 is the standard): RS reported that tesa has developed a tool to make this more precise. ES would like university support on this as it is very important. **ES and RS will ask a contact in France (Prof. Creton) who is a world expert on Probe Tack.** KS indicated that working on developing a modification of this TM would take a lot of time, and we could try to off-load this onto an academic/research institution.
- Sustainability topics such as recyclable biomaterials or reduction of carbon dioxide emissions. Afera could present on its newly developed PCF calculation tool, to which HY reacted positively. **CATIA will distribute more information to the GTF Members about what topics they expect to be presented at their techsem.**

8. Additional business

8.1 Determining the host and location of the 2026 GTF & GTMC Meetings >

- Both TAAT and JATMA nominated themselves to compete to hold the next Meetings in their respective countries, Taipei and Tokyo. These would entail both organising and hosting the Meeting. A final decision of the

host/location of the 2026 Meetings will be taken at the 2024 GTF Meeting in Shanghai. **AL will add this to the agenda set for the Meeting.**

9. Closing

- 9.1 RS closed the Meeting on time, thanking the GTF Members for their active participation and welcoming them to join Afera's multi-day 10th TechSem, which was starting right then at the same location with a Welcome Lunch. The group reaffirmed their commitment to stay connected on all the issues brought before the Meeting and said they look forward to the next Meeting in 2024.
- 9.2 **The next official Meeting will take place on Wednesday, 24 April 2024 at 9.00** in **Jeurong Hotel Shanghai** in **Shanghai, China, hosted by CATIA, registration** for the event taking place the afternoon before (**23 April**) from 14.00-17.30, followed by dinner at 18.00. The 2024 China Adhesive Tape Forum will take place on 25-26 April. See note in agenda item 7.1.

Astrid Lejeune
8 June 2023

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