Minutes of TelCo Test Methods Work Group

Date of the Meeting: 2021-11-25, 15:00 – 16:00

Participants

Bathsheba Fulton	BS	✓
Ralf Rönisch	RR	✓
Thorsten Meier	TM	✓
David Vanraes	DV	✓
Klaus Menzel	KM	✓
Uwe Maurieschat	UM	✓
Jürgen Pomorin	JP	✓
Karsten Seitz	KS	✓

Chair of Meeting: KS

Minutes: KS

Date of the Minutes: 2021-11-29

The meeting was performed as TelCo via TEAMS. After the welcome, topics were addressed as follows:

TOP I Agenda, minutes of last TelCo

Agenda adopted as proposed, minutes of TelCo 2021-25-10 accepted.

Attachment 1 “Draft Agenda…”

TOP II EU Competition Law

The necessity to comply with EU competition law addressed by KS, attached compliance charts shown and explained. No questions on the topic.

Attachment 2 “Compliance Charts”

TOP III Test Method “dynamic shear”

Introductory notes as proposed by KS – see attachment 3 - were briefly discussed and accepted.

The following discussion focused on several parameters for the measurements as proposed in attachment 3, the most important being the mode of connection of the test specimens to the clamps.

- Connection of test specimens to clamps: Proposal to connect via hooks as proposed in att. 3 was agreed, however, it should be described as one option among others. For an alternative method, RR provided pictures and description after the TelCo, this will be described as 2nd option. This also means, that test plates with holes will be the standard for the method.

- Test plates: the method will use the same plates as for static shear, material, cleaning operations and bonding area will be equivalent to static shear test method, also.
- Preparation of test specimens, bonding process: bonding pressure by application of weight or application of press. The pressure of 100 N/cm², proposed by tesa, seems to be extremely high, something in the range of 20 N/cm² probably more reasonable.
- Test speed: KS proposed 5 mm/min as standard to be described, was accepted.
- NOTE: the internal dyn. shear test method RR provided after the meeting uses 12.7 mm/min. This is in-line with ASTM 1002, and there are several other tape companies using this speed. => KS will use 12.7 mm/min instead of 5 mm/min in the new draft.
- Number of measurements for one result: not discussed yet, can be decided after first experiments with the drafted method.
- Units of the result, N/cm², MPa, kPa? No decision yet.

➲ KS to introduce the items described above into the draft version of the method.

➲ KS to provide a draft that can be used for first experimental validation of the method until mid Jan 2022. More theoretical parts (e. g. “significance and use”) of the method can be followed up, later.

Attachment 3 “Draft Dyn Shear…”

TOP IV Test Manual

KS proposed to work on the manual according to a categorization list – attachment 4. List was agreed after discussion on Cat C items in particular. “C item” does in no way imply that the method should be removed, just minimize the work to improve. “Quick Stick”, “Bond separation of thermosetting tapes…” and “Solvent penetration….” are not used by any of the members of the TM Work Group.

The methods in Red and Orange are ISO and GTF methods. Before any changes here, clarification is necessary what can be changed without approval of other committees.

➲ KS to discuss again with Lutz Jacob.

NOTE: discussion with LJ done. Basically, only typos and the like may be changed. Any other change (even removal of certain solvents from the list of cleaning solvents) must be approved.

➲ The proposal is to constantly work on the improvement of the manual and gradually (e. g. every 2 months) upload updated versions.

Attachment 4 “improvement manual”

TOP V Future Test Methods, “Pressing issues”

Discussion on a new proposal: New (peel) test method for skin adhesion. The topic is considered a very challenging one, previous attempts did not produce satisfactory results on skin-like materials in terms of comparability to results on real skin. Substrates very expensive. However, the group recommends pursue the topic further as it is significant for the tape industry as a whole.

➲ KS to make it a topic in next TC meeting.

TOP VI Round Robin Tests

Common sense to revive the round robin exercise for standard test methods. Agreements on products and methods to be addressed can be found in old protocols. In the first place, a simplified evaluation of the results without sophisticated statistics will be sufficient.

➲ KS to review old protocols and prepare an action plan for next meeting.

Date of next meeting

➲ First half of Jan 2022, KS will provide proposals via Doodle.

Karsten Seitz