

### Minutes TPE-Forum

Date: 12.10.2017

Place: SKZ Würzburg

Participants:

[Redacted names]

Bada  
M-Base  
Hexpol  
SKZ  
Allod  
Buss  
Kraton Polymers Research  
Covestro  
Evonik  
SKZ  
SKZ  
Teknor Apex  
SKZ  
Buss  
Allod  
Kraiburg TPE  
BASF  
Melitek  
SKZ  
Versalis  
Dr. Gupta-Verlag  
Kuraray  
Albis

Absent with excuse:

[Redacted names]

Dynasol  
Polyplast  
Celanese  
TSRC  
Elastron  
Covestro  
Kraiburg TPE  
WDK  
IPF  
DSM  
Hexpol  
Teknor Apex  
Kraiburg TPE

Minutes: [Redacted] (SKZ)

Mailing list: Participants and excused

## Topic

**1 Welcome Address and Introduction of New Participants**

██████████ (Speaker) welcomes all attendees. All new participants are asked to introduce themselves. No objections against their participation in the TPE-Forum were raised. ██████████ points out the importance of the Code of Conduct and asks all participants to act in full compliance with it.

**2 Language**

All participants agree to keep German as language for the presentations and discussions for the meeting. As agreed previously, minutes and agenda as well as other written documents will be composed in English in the future.

**3 Activities in TPE seminars and training courses**

SKZ presents the idea of the SKZ academy and gives a short overview of the current and planned activities in the TPE area. To avoid parallel activities at different training providers, the participants agree to form a work group consisting of ██████████ and ██████████. SKZ will organize a meeting in January 2018.

**4 Design Flyer and Logo**

██████████ presents and explains the design of the logo. Two colors stand for the two worlds of plastics and elastomers. The open circle indicates that the TPE-Forum will always be open for new members. No protected shapes, labels, colors or else were used for the design to avoid any conflicts with existing IP rights, trademarks or similar. The logo is available for all interested members in different resolutions from ██████████ on request.

██████████ presents the design of the new flyer. No major objections were raised from the participants regarding design and contents except for the contact information (s. below topic 5 Homepage).

**5 Homepage TPE-Forum**

██████████ presents the current status of the homepage and shows the contents. Proceedings in design of the website can be followed under <https://gupta.bitseven.de/>

The following comments and proposals were given by the participants:

- Posting of minutes of previous TPE-Forum meetings: For sake of privacy, the names of all participants and actors in all reports should be removed (or blurred). Posting of a short summary only instead of the full minutes is not desired by the members.
- Books: Only pure monographs dealing with TPE are listed. All attendees are asked to give further recommendations on literature to ██████████
- Standards: ██████████ asks for input for the relevant standards for TPE from all participants. This may be of interest especially for the standards that are currently in progress. ██████████ will also contact the Beuth Verlag if there is a chance to show some contents of the „nomenclature and abbreviated terms“ of TPE (DIN EN ISO 18064)
- The database is not yet of interest. This may be relevant in the future when the harmonization processes are finished and thus a bigger number

of TPE can be included in the CAMPUS database.

- Member list: No contact data should be given, just the company logo (if appropriate with a link to their website) and the name of the attendee
- News: In this area interesting press releases from the TPE magazine will be posted. In case some member gets notice of any other interesting contents that are not yet posted at that time please contact [REDACTED].

For timing reasons, all members agree that [REDACTED] can determine which contents will be posted in this area without the necessity of any further agreement by the whole TPE-Forum.

- Legal information/Imprint: Dr. Gupta Verlag as host of the website will fill this page with their data.
- Contact information: As agreed earlier the first contact of any interested person should be handled by the WDK. However, as currently at the WDK only one person is in charge of the complete TPE activities with no representative in case of vacation or sickness, some concerns were raised that requests will be processed quickly at any time. [REDACTED]

[REDACTED] will contact the WDK for further clarification. Until then, neither the homepage will be made public nor the flyer released.

Provided that all discussed topics can be cleared within a short time, the homepage might go online until end of November 2017.

For all coming meetings of the TPE-Forum, changes and proceedings in the homepage should be included in the agenda.

## 6 Assignment of Domains

[REDACTED] booked the addresses for website on behalf of the TPE-Forum. Yet, for legal reasons it is necessary that a legal party will hold the rights for this domains. As the Dr. Gupta-Verlag will host the website it makes sense that the domains will also be assigned to them. [REDACTED] and the Gupta Verlag will sign an agreement that the domains will be released back to [REDACTED] in case the TPE-Forum or the Gupta Verlag will discontinue their activities for any reason. In that way, it is ensured that the domains will be available for the TPE-Forum as long as it continues its activities.

## 7 Open Issues / Pending Activities from Last Meeting

No open points remained from last meeting.

## 8 Status TPE in CAMPUS

[REDACTED] informs about the further proceedings to include TPE in the CAMPUS database. As the test procedures for TPC, TPU and also TPA seem to be based on very similar standards with only minor deviations among the TPE families, a suitable proposal will be made at the next meeting of the corresponding CAMPUS working group (beginning of 2018) to include these three TPE groups in the database.

For TPS, TPO, and TPV no actions are possible at the moment as currently no international standard or even draft is available for these TPE. As soon as an ISO exists, the respective companies are welcome to get involved in the CAMPUS activities as well.

## 9 Proceedings in Standardization of TPE

- [REDACTED] gives a short overview on the activities of the last meeting of the ISO TC 61/SC 9/WG 26 – Thermoplastic Elastomers in September. The main decisions are the
  - o Development of ISO 10350-3 Plastics — Acquisition and presentation of comparable single-point data — Part 3: Thermoplastic elastomersand the revision of
  - o ISO 20029 - Plastics -- Thermoplastic polyester/ester and polyether/ester elastomers for molding and extrusion – Part 2: Preparation of test specimens and determination of properties and
  - o ISO 16365 - Plastics -- Thermoplastic polyurethanes for molding and extrusion Part 2: Preparation of test specimens and determination of properties

## 10 Standardization of TPS

[REDACTED] and [REDACTED] give a short summary of the proceedings from the meeting that was held in September between the TPS compounders. Agreement was found for most contents and descriptions with only minor deviations between the participants. Thus, it is planned to prepare a first draft for an ISO standard by December 2017 which then will be reviewed and discussed. Another meeting will be planned for Jan/Feb 2018 by the SKZ. [REDACTED] and [REDACTED] would also like to join the working group in the future.

## 11 Status VDI 2019

[REDACTED] informs that the VDI 2019 was finalized and will be passed soon. Additionally, the group thinks of preparing a corresponding ISO draft in the near future.

## 12 Interests in Simulation of TPE

[REDACTED] raises the question if any of the attendees has major experience in the simulation (MoldFlow, FEM, etc.) of TPE. Regarding MoldFlow, some information is available at most companies, yet for FEM no suitable models are known at the moment. SKZ will do a short research about the literature status and check if an appropriate research project could be started in this area. A summary will be given at the next meeting.

## 13 Standardization of TPO, TPV

Albis and Teknor Apex have some interest in the harmonization of TPV. [REDACTED] will contact Exxon to check if they want to join them. Mr. Pauler will check if Kraiburg TPE will also participate in these activities.

## 14 Next Meeting

The next meeting will be planned after 19. February 2018. A corresponding doodle survey will follow soon (SKZ). [REDACTED] and [REDACTED] will talk to WDK, Frankfurt, if they are able to host us for the next meeting. If not, the meeting will be held at SKZ.

**To-Do-List**

No.	What	Who	When
1.	Organize meeting for planning of training activities	[REDACTED]	asap
2.	Finalize homepage & flyer	[REDACTED]	Nov. 2017
3.	Contact Beuth	[REDACTED]	Nov. 2017
4.	Contact WDK for status about contact information for homepage and flyer	[REDACTED]	Oct. 2017
5.	Sign agreement for assignment of domain names	[REDACTED]	Nov. 2017
6.	Organize meeting for TPS standardization, include Kraton and Hexpol	[REDACTED]	asap
7.	Organize meeting for TPV standardization with Teknor Apex, Albis, Kraiburg TPE, Exxon	[REDACTED]	asap
8.	Contact Exxon for participation in the TPE-Forum and the harmonization of TPV	[REDACTED]	asap
9.	Research in status of simulation of TPE	[REDACTED]	Next meeting
10.	Contact WDK for hosting of next meeting	[REDACTED]	asap