



MEETING LOG

SUBJECT: ASTM F15.12 Methods for Measuring Rebreathing Task Group

FY 25 OP PLAN ENTRY: Infant Bedding

DATE OF MEETING: 11/19/2024

LOCATION OF MEETING: Virtual

CPSC STAFF FILING MEETING LOG: Ashley Johnson (HSPP)

FILING DATE: 11/22/2024

CPSC ATTENDEE(S): Ashley Johnson (HSPP), Daniel Taxier (ESMC), Tim Smith (ESHF), Suad Wanna-Nakamura (HSPP), Zachary Foster (ESHF), and Brad Gordon (ESME)

NON-CPSC ATTENDEE(S): Contact ASTM for the full attendee list

Summary of Meeting:

The subject Task Group (TG) is developing test methods to measure firmness, airflow, and carbon dioxide (CO₂) re-breathing for infant products.

The TG chair began the meeting by reviewing the most recent draft (26.4) of the Standard Test Method for Firmness of Soft Infant Products- Test Stand Method document, which included revisions marked in red that were discussed and agreed on by the task group at the previous subcommittee meeting on 10/30/24. The TG chair stated that this ballot will be sent out soon.

The TG next discussed the evaluation of the handheld method for firmness testing (that can be used on seated products). Labs that are participating in this testing reported to the TG that their evaluations are nearly completed. The TG chair stated that this data will be reviewed by analyzed by the Handheld TG when the evaluation is complete.

The TG then discussed the interlaboratory study (ILS) for the test stand method for firmness testing (that can be used on nursing pillows and loungers). The ILS consists of a pilot run study on flat foam and a full repeatability and reproducibility (R&R) study using nursing and lounging products. The TG chair stated that most labs have completed the pilot run, and that the R&R study is just beginning.

The TG chair next discussed a revision to the handheld device tester to address issues like bunching and wrinkling of fabric that may be the cause of repeatability issues and inconsistent results because of the distance between the ring and probe. TG discussed these issues and potential solutions to these issues and agreed that this requires additional testing and data.

Before the meeting closed, the TG chair explained to the TG that a paper on breathability regarding airflow and



the scientific basis for understanding work of breathing will be sent out to the subcommittee for review and is anticipated to be published in January.

Next Steps:

The TG will continue discussing draft firmness, airflow, and CO₂ re-breathing test methodologies at the next meeting. The next meeting is expected to take place on December 3, 2024.