

SUBJECT: ASTM F15.19 Methods for Measuring Re-Breathing Task Group

FY 23 OP PLAN ENTRY: Infant Bedding

DATE OF MEETING: 12/19/2023

LOCATION OF MEETING: Virtual

CPSC STAFF FILING MEETING LOG: Ashley Johnson (HSPP)

FILING DATE: 12/21/2023

CPSC ATTENDEE(S): Ashley Johnson (HSPP), Suad Wanna-Nakamura (HSPP), Tim Smith (ESHF), Daniel Taxier (ESME),

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

Summary of Meeting:

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

The TG Chair began the meeting by explaining that the Standard Test Method for Firmness of Infant Products ballot is out for concurrent ballot, closing on January 22, 2024. The TG chair also stated that there are no negatives or comments for the TG to review at this meeting.

The TG then discussed an ASTM Interlaboratory Study (ILS 1887, Work item 84613) has been initiated for the Standard Test Method for Firmness of Infant Products. The objective of the ILS is to conduct a preliminary study to determine repeatability and reproducibility of the draft Test Method. Currently, the TG chair is working to identify participant laboratories, order/send samples, and finalize the test procedure. Multiple parties will participate, including CPSC staff.

Next, the TG continued to review the Airflow Resistance Test Method Draft 10.1. The TG chair first summarized the rationale for the ballot, then the TG reviewed the 'scope', 'terminology', and 'significance and use' sections of the draft Test Method. The TG also reviewed sections on the 'apparatus and test specimen', including similarities and differences to Firmness Test Method ballot. The TG did not review an updated video describing the test procedure, but a version of the video is expected to be attached to the next ballot via QR code and includes a narration. The TG explained that the draft Airflow Resistance Test Method will be finalized and will go out for Subcommittee ballot soon.

Lastly, the TG discussed an upcoming Interlaboratory Study on Infant Feeding Supports, where samples will be tested for firmness. A TG member stated that these results would be shared with ASTM. The TG also discussed firmness in other standards, such as rockers that use a hand-held firmness test device based on a Boise State University (BSU) contract research report on infant seated products. The TG discussed potential future work on standardizing a test method for the hand-held firmness test device.

Next Steps:

The TG will continue discussing draft firmness, airflow, and CO₂ re-breathing test methodologies at the next meeting. The January 2, 2024 meeting is cancelled. The next TG meeting is expected to take place on January 16, 2023.