



**SUBJECT:** ASTM F15.19 Methods for Measuring Rebreathing Task Group

**FY 24 OP PLAN ENTRY:** Infant Bedding

**DATE OF MEETING:** 7/16/2024

**LOCATION OF MEETING:** Virtual

**CPSC STAFF FILING MEETING LOG:** Ashley Johnson (HSPP)

**FILING DATE:** 7/17/2024

**CPSC ATTENDEE(S):** Daniel Taxier (ESME), Ashley Johnson (HSPP), Suad Wanna-Nakamura (HSPP), Zachary Foster (ESHF), Tim Smith (ESHF), 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 (CO<sub>2</sub>) re-breathing for infant products.

The TG chair began the meeting by updating the TG on administrative matters. The ASTM F15.19 Ad Hoc Juvenile Product Firmness and Breathability Task Group is now Subcommittee F15.12 Firmness and Breathability for Juvenile Products. There is an administrative ballot which closes on July 17, 2024, to move the three work items for Firmness, Airflow, and Re-breathing from F15.19 Infant Bedding to F15.12. The TG chair reminded TG members to both vote and to join new subcommittee.

The TG chair next summarized the status of the test stand method for firmness testing (that can be used on nursing pillows and loungers). The TG chair explained that the draft ballot for the test stand method for firmness testing is ready to go out for ballot soon, once the F12.15 subcommittee has met. The TG chair also explained that the pilot interlaboratory study (ILS), which will begin shortly, will run as a faster study using flat foam to collect data about variability and repeatability, followed by a full ILS study. The TG chair reviewed the list of participants, which includes CPSC staff. Discussion then centered around the ILS study and included topics such as the need for a full ILS to identify and reduce interlaboratory variability, the timeline of publication of this test method, the effect of shipping on product firmness due to shift in filling material, and whether to use this test method or the test methods outlined in the draft voluntary standards for loungers and nursing pillows. The TG agreed that these topics required more discussion.

The TG then discussed the handheld method for firmness testing (that can be used on seated products). The TG discussed testing multiple handheld firmness testing devices to validate them against each other. CPSC staff will determine whether staff is able to participate in round robin testing of the handheld firmness device.

Lastly, the TG reviewed the draft airflow test method, which has been sent out for ballot once. The TG chair requested that TG members send in comments on the draft, which now has a revised hemispheric probe. The probe and its two breathing passages are intended to simulate the configuration of an infant's face.

### Next Steps:

The TG will continue discussing draft firmness, airflow, and CO<sub>2</sub> re-breathing test methodologies at the next meeting. The next meeting is expected to take place on August 13, 2024.