ASTM F02
Flexible Barrier Materials

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ASTM International

ASTM International is a globally recognized leader in the development and delivery of international voluntary standards.

- 30,000 Members
- 150 Countries
- 12,000 Standards
- 144 Technical Committees
F02 Flexible Barrier Packaging

- **flexible package**—any package with at least one flexible component that can be bent back or folded back upon itself*

- 56 Standards, 40 Test Methods
- 19 are FDA recognized consensus standards

- 5 Subcommittees
  - F02.10 Permeation
  - F02.15 Chemical & Safety
  - F02.20 Physical Properties
  - F02.40 Integrity
  - F02.50 Package Design & Development

*ASTM F17
F02.10 Permeation
Chair: Mike Troedel

• Finalizing a test method to Verify Flexible Barrier Material Resistance to the Passage of Air (aka Impermeability test from ISO 11607-1 Annex C)

• WVTR ILS (interlaboratory study) comparison study results
  – E96 gravimetric
  – E398 RH sensor with accumulation
  – F1249 IR-pulsed modulated

• F2476 CO$_2$TR ILS starting
F02.15 Chemical/Safety Properties
Chair: Marilyn Baker

- F34 Practice for Construction of Test Cells for Liquid Extraction has been revised and is being balloted
F02.20 Physical Properties
Chair: Marie Tkacik

- Test Method for Abrasion Resistance under development.
F02.40 Integrity
Chair: Nick Winters

• F1929 **Dye Penetration** – **Porous Packaging** just updated to add two new techniques
  – Injection
  – Edge Dip
  – Eye Dropper

• **Dye Penetration** – **Nonporous Packaging** method being finalized

• New method being developed for **Evaluation of Seal Quality and Integrity using Airborne Ultrasound** – under ballot
F02.50 Package Design & Development
Chair: Matt Gibney

- New additions to F17 Terminology
- F2097 Guide for Design and Evaluation of Primary Flexible Packaging Medical Products being updated
  - Compendium of commonly used test methods and standards
  - Organized into 8 categories
    - Safety
    - Barrier
    - Durability
    - Package Integrity & Seal Strength
    - Visibility & Appearance
    - Processing
    - Printed Ink
    - Package Performance
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• $75 to join ASTM
  – Access to one volume of standards
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• Next F02 meetings
  – April 17-18 Indianapolis, IN
  – October 23-24 Jacksonville, FL
  – Spring 2014 East Lansing, MI
  – Fall 2014 Europe – location tbd
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