ASTM International Committee F02 Flexible Barrier Packaging

Michael L. Troedel
Cardinal Health, Inc.
Agenda

F02 Scope

Officers

Sub-Committee Organization and Chairs

Sub-Committee Activities
The development of terminology, test methods, practices, and specifications for flexible barrier packaging, and the promotion of research in this field. Standards under the jurisdiction of other Committees shall be used when applicable.

The area of interest of the committee is flexible barrier packaging including the component barrier materials, their properties, and package design, development and production.

Flexible barrier packaging for the purpose of this Committee includes any package with at least one flexible component that can be bent or folded back upon itself.

Typical flexible barrier materials are paper, nonwovens, plastic films, and metal foils used alone, treated or in various combinations.
Officers

Chairman: Dhuanne Dodrill, Rollprint Packaging Products
Vice-Chairman: John Spitzley, Spartan Design Group
Recording Secretary: Kent Hevenor, SenCorp White
Membership Secretary: Bob Thornburg, BD Technologies
Past Chairman: Hal Miller, Pace Solutions LLC
Member-at-Large: Curtis Larsen, Spartan Design Group
Member-at-Large: Edward Emerson, Mocon Inc.
Member-at-Large: Patrick Nolan, DDL Inc.
Sub-Committee Organization and Chairs

F02.10 Permeation - Michael Troedel
F02.15 Chemical/ Safety Properties - Marilyn Baker
F02.20 Physical Properties - Marie Tkacik
F02.40 Package Integrity - Nick Winters
F02.50 Package Design and Development - Dhuanne Dodrill
F02.90 Executive – Committee Officers
F02.10 Permeation

F02.10 Permeation


F02.10 Permeation

F2476-05 Test Method for the Determination of Carbon Dioxide Gas Transmission Rate (CO2TR) Through Barrier Materials Using An Infrared Detector

F2622-08 Standard Test Method for Oxygen Transmission Rate Through Plastic Film and Sheeting Using Various Sensors

WK9915 Guide to Oxygen Permeability Test Methods (is currently being balloted)

WK30771 New Test Method for Impermeability of Flexible Barrier Materials to the Passage of Air (is currently being balloted)

New ILS Study for comparison of E96, E398 and F1249 on WVTR Testing
F02.15 Chemical/Safety Properties

F1349-08 Standard Test Method for Nonvolatile Ultraviolet (UV) Absorbing Extractables from Microwave Susceptors
F02.15 Chemical/Safety Properties


F02.15 Chemical/Safety Properties

F2013-10 Standard Test Method for Determination of Residual Acetaldehyde in Polyethylene Terephthalate Bottle Polymer Using an Automated Static Head-Space Sampling Device and a Capillary GC with a Flame Ionization Detector
F2475-11 Standard Guide for Biocompatibility Evaluation of Medical Device Packaging Materials (recently reapproved)
F2638-07 Standard Test Method for Using Aerosol Filtration for Measuring the Performance of Porous Packaging Materials as a Surrogate Microbial Barrier (WK35671 – ILS study underway to determine reproducibility)
F02.20 Physical Properties

F88-09 Standard Test Method for Seal Strength of Flexible Barrier Materials
F392-93(2004) Standard Test Method for Flex Durability of Flexible Barrier Material (WK30963 will change this method to a conditioning standard and will be moved into F02.50 subcommittee)
F1140-07 Standard Test Methods for Internal Pressurization Failure Resistance of Unrestrained Packages
F02.20 Physical Properties

See WK21807 proposed revision, currently being balloted
F2029-08 Standard Practices for Making Heatseals for Determination of Heatsealability of Flexible Webs as Measured by Seal Strength
F02.20 Physical Properties

F2217-02(2007) Standard Practice for Coating/Adhesive Weight Determination
F02.20 Physical Properties

F2824-10 Standard Test Method for Mechanical Seal Strength Testing for Round Cups and Bowl Containers with Flexible Peelable Lids

WK23455 Abrasion Resistance of Flexible Packaging Films, round robin testing underway, then will be balloted
F02.40 Package Integrity


See also WK23814 proposed revision

F2095-07 Standard Test Methods for Pressure Decay Leak Test for Nonporous Flexible Packages With and Without Restraining Plates
F02.40 Package Integrity

F2096-04 Standard Test Method for Detecting Gross Leaks in Medical Packaging by Internal Pressurization (Bubble Test) (WK28919, proposed revision, currently being rebaloted)


F2338-09 Standard Test Method for Nondestructive Detection of Leaks in Packages by Vacuum Decay Method

F2391-05(2011) Standard Test Method for Measuring Package and Seal Integrity Using Helium as the Tracer Gas (recently reapproved)
F02.40 Package Integrity

F2714-08 Standard Test Method for Oxygen Headspace Analysis of Packages Using Fluorescent Decay

WK25128 Detecting Leaks in Nonporous Packaging or Flexible Barrier Materials by Dye Penetration (ILS study currently underway)
F02.50 Package Design and Development


F17-08 Standard Terminology Relating to Flexible Barrier Materials


F02.50 Package Design and Development

F2097-10 Standard Guide for Design and Evaluation of Primary Packaging for Medical Products
F2825-10 Standard Practice for Climatic Stressing of Packaging Systems for Single Parcel Delivery
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Fig. 1 Summary of Test Methods for Medical Packaging Design and Evaluation
F02.50 Package Design and Development

Note - Many of the standards included in this guide are United States FDA medical device recognized consensus standards. Selection and use of a U.S. FDA recognized consensus standard is voluntary and the sole responsibility of the user in determining its applicability. For further information, consult the U.S. FDA Medical Device Standards Program at http://www.fda.gov/MedicalDevices/DeviceRegulationandGuidance/Standards/default.htm.

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FDA’s Involvement with Standards

Inspecting the Packaging Process

Pat Weixel, Office of Compliance, CDRH, FDA

Can be found on ASTM F02 Committee website under Committee Documents
Next F-2 Meetings

April 18 – 19, 2012
Phoenix, AZ

September 25 – 26, 2012
Barcelona, Spain
Come join the members of ASTM Committee F02 as they meet in beautiful Barcelona!

September 26-27, 2012
Hotel Rey Juan Carlos I
Barcelona, Spain

Contact:
Diane Trinsey
Committee F02 Staff Manager
Phone: 610-832-9661
For more about Committee F02, visit www.astm.org/COMMIT/F02
Thank you

Questions?

E-mail: michael.troedel@cardinalhealth.com