

Adhesive Coating Testing Standards



Adhesive Bond Strength test (tensile, shear, peel)

ASTM F88-15 2015: Seal strength of flexible barrier materials
BS EN 15870 2009: Butt joints
ISO 37 2017: Tensile stress & strain properties of rubbers and thermoplastics
ISO 4587 2003: Lap shear testing
ISO 4674-1 2016: Constant rate of tear
ISO 8339 2005: Extension to break for sealants
ISO 8510-2 2006: Peel test
ISO 11339 2010: T-peel test for flexible-to-flexible bonded materials
ISO 13934-1: Textile tensile properties

Cure testing

ISO 9117-3 2010: Paints and varnishes Surface Drying test
ASTM D2589 19a: Standard test method for rubber property vulcanization using rotorless cure meters.

Heat Seal testing

RDM HSE 3 – Heat Seal Laminator – ASTM F2029: Standard practices for making laboratory heat Seals for determination of heat sealability of flexible barrier materials as measured by seal strength.

Drawdown testing

ASTM D823: Standard practices for producing films of uniform thickness of paint, coatings, and related products on test panels.

Fire Retardancy testing

FAA – Federal Aviation Regulation – 25.853 / 25.855: Vertical Burner test for cabin & cargo compartment materials.
FAA – Federal Aviation Regulation – 25 – 45: Degree Burner test for cargo compartment liners and waste stowage compartment materials.
FAA – Federal Aviation Regulation – 25.853: Horizontal Burner test for cabin, cargo compartment materials, and miscellaneous materials.

Viscosity testing (Standard Brookfield and Brookfield Helipath)

ISO 2555:2018 (en) Plastics – Resins in the liquid state or as emulsions or dispersions – Determination of apparent viscosity using a single cylinder type rotational viscometer method.

Solids testing

ASTM D5201 - 05a (2020), standard practice for calculating formulation physical constants of paints and coatings.

Specific Gravity testing

ISO 2811-1:2016 Paints and varnishes – Determination of Density – Part 1: Pycnometer Method, ASTM D1475 - 13(2020), standard test method for density of liquid coatings, inks, and related products.

Flash Point testing

ISO 3679:2015, determination of flash no-flash and flash point – Rapid Equilibrium Closed Cup Method.

Surface Conductivity testing

Obeys the IEC 61340-5-1:2016, Electrostatics - Part 5-1: Protection of electronic devices from electrostatic phenomena - General Requirements whilst conforming to EN 100 015-1, July 1992. Basic specification: protection of electrostatic sensitive devices. Part 1: General Requirements.

Bulk Liquid Conductivity testing

ASTM D2624 - 15, standard test methods for electrical conductivity of aviation and distillate fuels.