



Thwing-Albert Instrument Company

More Than a Century of Testing Solutions

Blocking Fixture

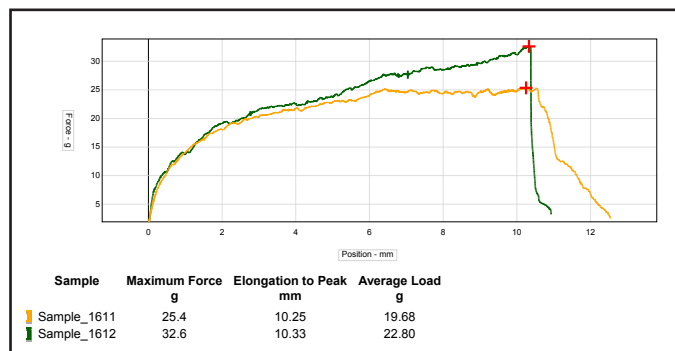
ASTM D3354 & ASTM D918

Thwing-Albert designed the Blocking Fixture for use with the Vantage Series of universal testing machines to measure the blocking load of plastic film as well as the blocking resistance of paper and paperboard. This fixture can also be adapted to fit other manufacturers materials testing frames.

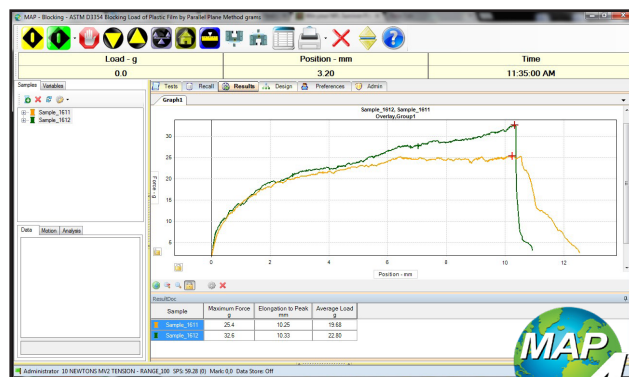
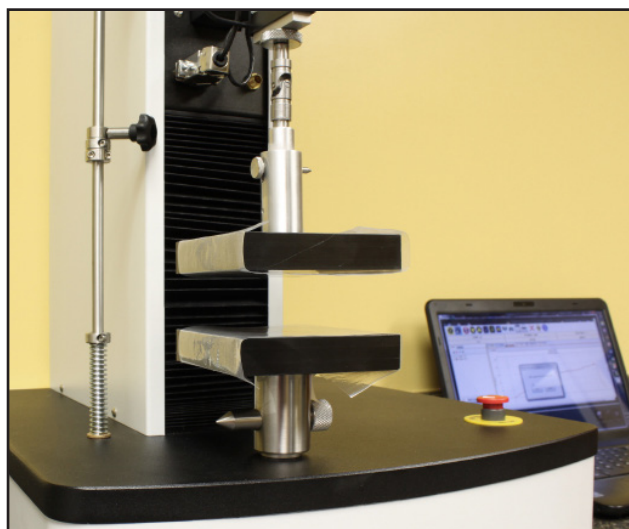
Blocking is the unwanted adhesion between layers of plastic film, paper or paperboard. Results reflect the ability of a material to adhere to itself when pulled apart. ASTM D3354 or ASTM D918 specifications are used to program MAP-4 materials testing software to run the blocking test. The results demonstrate the degree of blocking that exists as a result of factors including film processing, storage, temperature and pressure.

Blocking Load by Parallel Plate Method Sample Type: Plastic Film

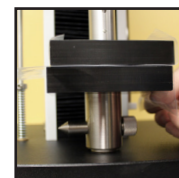
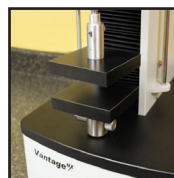
- Using two plastic blocks the two layers of film are inserted between them
- One layer of film is attached to the upper block and the other layer is attached to the lower block
- The upper and lower block are slowly separated
- The film layers are then pulled apart at a constant speed until separated
- The force to separate the layers of film is recorded in realtime



Sample test results for the Film Blocking Test



▲ MAP-4 Testing Software Realtime Results



IMPORTANT NOTE: This document is an overview of the industry standard method. Thwing-Albert Instrument Company is referencing ASTM D3354 and ASTM D918. The official documentation for this testing method must be acquired via www.astm.org.

Thwing-Albert Instrument Company

14 W. Collings Avenue, West Berlin, NJ 08091, USA

tel 856-767-1000 ■ fax 856-767-2615 ■ info@thwingalbert.com

www.thwingalbert.com



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