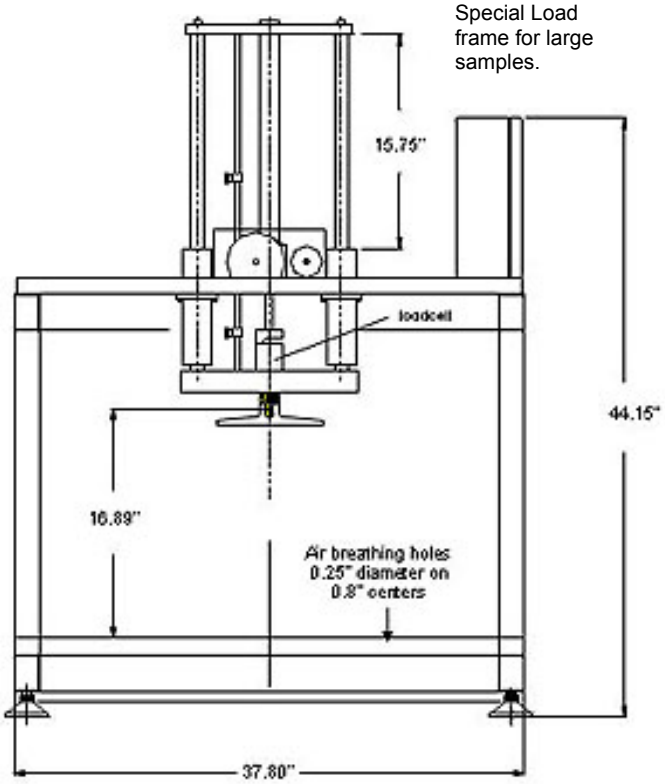
TESTRESOURCES

IFD Foam

Test Systems

Universal Test System configured to meet the special needs of foam testing, including fixtures and test software.

Reference: ASTM D3574



Several Load Frames to choose from

The 2000M is dual column load frame available in multiple column widths for testing standard and large foam samples.

2000M features 15.6 inches (400 mm) between columns.

2000M-610W handles samples 24 inches (610 mm) wide.

We build frames to order for larger test sample sizes.

2000M load frames are rated to 2250 pounds (10 kN) and can be configured for both tension and compression tests.

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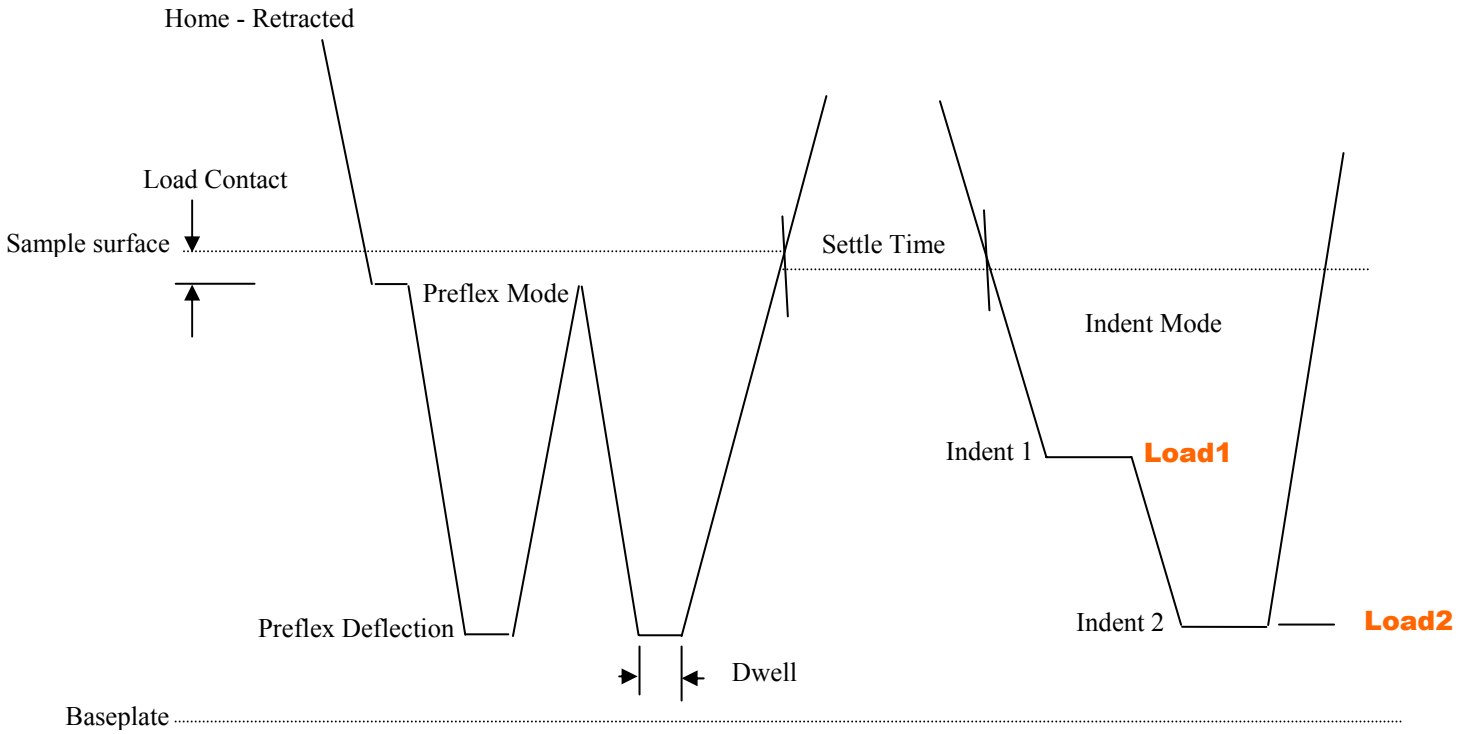
M Controller with MSW Software

The M controller, when used with MSW Software, is a universal test system capable of tensile and compressive tests on foam products and materials. The M controller includes a LCD display with operator input keypad. The operator interface is designed for production applications.

MSW Software includes the ability to program the machine step by step in load or position and to set dwell times. With the D3574 module, the software adds the ability to generate reports with data matching the standard requirements. The program follows ASTM requirements as shown below.



Typical Configuration

Parameter	Example	Description
Initial Thickness	4.00	Default or measured mode
Settle Time	6	0 to 15 minutes
Contact Force	1	0.1 to 5 lb
Preflex Speed	9.44	0 to max inches/min
Preflex Dwell	10	0-20 sec
Preflex Deflection	77	50 to 90%
Indent Speed	1.96	0 to max inches/min
IFD1	25	5 to 95%
IFD2	65	5 to 95%
IFDT	60	seconds
Flimits	650 pounds	Set maximum load value for test.

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Test Procedure – ASTM 3574 B1 mode

- Set up and store machine commands to match load, position and time profiles (MSW)
- Start machine
- Press any key to setup reference point.
- Press 'Menu' key to access Test Setup.
- Enter in the variables of the profile desired.
- Set the lower limit switch so that the platens have 0.25 to 0.50 inch (0.1 to 0.2 mm) clearance
- Jog the crosshead up so that you can place a sample between the platens.
- Place sample between the platens.
- Press'0' key to tare load. This sets the crosshead return position.
- Press Start button to begin test.
- At the conclusion of the test, read results.

Sample Report Format – D1621 Module