Advanced Packaging
Technology Laboratories, Inc.
laboratory report
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March 4, 2026

Ox Box
1555 Wrightwood Court
Addison, IL 60101

Attention: Harry Marquez
Regarding: Compression
Report No.: 28488

Dear Harry:

This report is submitted to document the results of tests conducted on one (1) set of corrugated bulk bins as requested by Ox Box.

Materials Tested

Super-Duty Bulk Pak
1-PC Box with lid
44.75 x 36.75 x 44



Conditioning

Samples were conditioned at 73°F and 50% RH for a minimum of 24 hours prior to testing.

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Advanced Packaging Technology Labs does not provide any warranty that the tested packaging will perform as designed during its end use. In no event will APTL's liability exceed the costs of the testing services provided. As a mutual protection for our clients and APTL, all reports are submitted as the confidential property of our clients and authorization for publication is reserved pending written approval. Samples will be disposed of 10 days after testing is completed unless other arrangements are agreed to in writing.

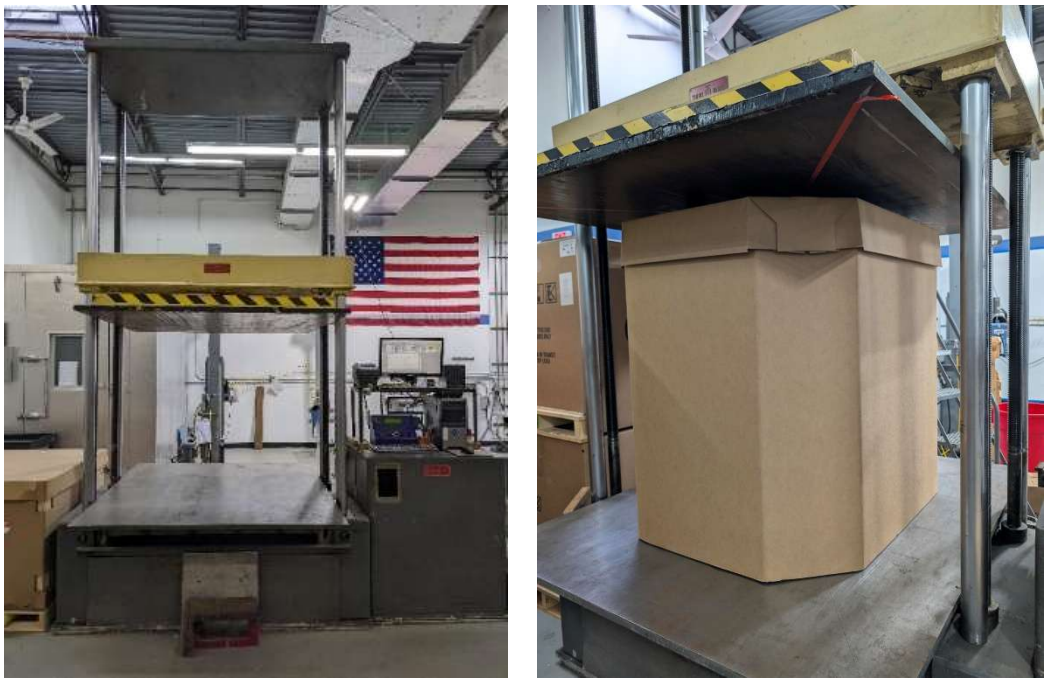
BOX COMPRESSION

Test Procedure

Testing was conducted in accordance with applicable sections of TAPPI T804, *Compression Test of Fiberboard Shipping Containers*. The test was set to a 100 lbs pre-load, with the test speed set to 0.5" a minute until a 30% sudden loss of compressive load was detected.

Equipment Used

Figure 1. Tinius Olsen compression tester and pre-test example



Results

Chart 1. Compression Plots
Position v. Load

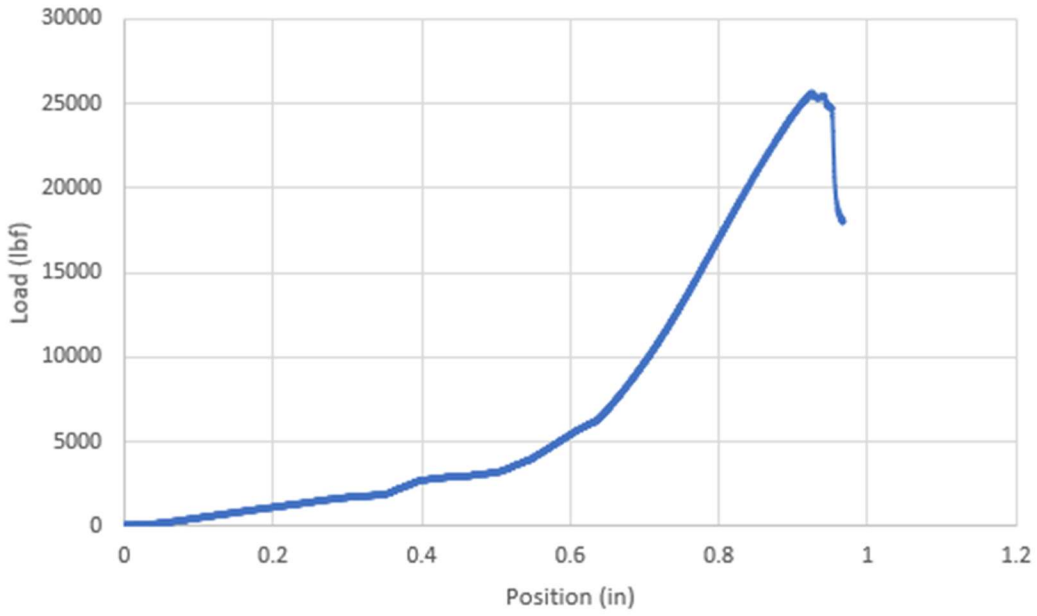


Table 1. Compression Test Results and Statistics

	Peak Load (lbs.)	Deflection (in.)
1	19,644.6	0.833

Should you have any questions regarding the information provided, please contact us.

Sincerely,

Nathan Keating

Nathan Keating
Materials Lab Manager

Anthony J White

Anthony J. White
President

Post Test Photos

30% drop off failure location



Close-up of failure

