

September 18, 2024

**Ox Box**

1555 Wrightwood Court  
Addison, IL 60101

**Attention:** Harry Marquez  
**Regarding:** Edge Crush Test  
**Report No.:** 27189

Dear Harry:

This report is submitted to document the results of tests conducted on two (2) sets of corrugated bulk-bins as requested by Ox Box.

**Materials Tested**

**463836OCT**

Ox Box  
36 Octagon  
3-ply - C/Jumbo A/A  
166327  
HSC Glue Outside Plain  
Vertical  
46 x 38 x 36



**463839OCT  
Powerflute**

Ox Box  
36 Octagon  
3-ply - C/Jumbo A/A  
166862  
HSC Glue Outside Plain  
Vertical  
46 x 38 x 39



**Conditioning**

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

## BOX COMPRESSION

### Test Procedure

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

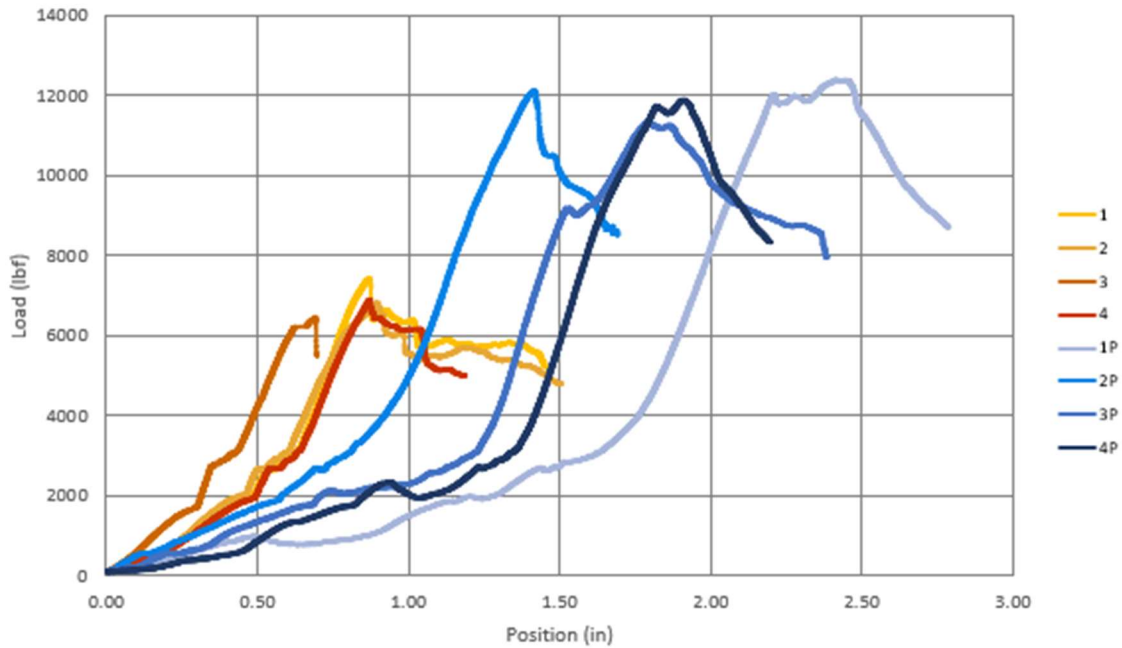
### Equipment Used

Figure 1. Tinius Olsen Compression Tester



**Results**

**Chart 1. Compression Plots  
Position v. Load**



**Table 1. Compression Test Results and Statistics**

463836OCT			463839OCT Powerflute		
	Peak Load (lbs.)	Deflection (in.)		Peak Load (lbs.)	Deflection (in.)
1	7425.3	0.869	1P	12403.6	2.410
2	6811.9	0.897	2P	12130.8	1.416
3	6441.2	0.690	3P	11325.5	1.793
4	6901.1	0.870	4P	11884.3	1.909
High	7425.3	0.897	High	12403.6	2.410
Low	6441.2	0.690	Low	11325.5	1.416
<b>Average</b>	<b>6894.8</b>	<b>0.832</b>	<b>Average</b>	<b>11936.1</b>	<b>1.882</b>
Std Dev	405.8	0.095	Std Dev	459.0	0.410

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