



COMPRESSION TEST REPORT

Client: Honcho Supplies
ATTENTION: Nikki Willard
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FIVE DOCK NSW 2046

Job No: 15716
Test Date: 10/08/2020

Specimen Description:	Four (4) 5 mm Chief HD polypropylene board samples (Figure 1). Approximate size 100 mm x 100 mm x 5 mm.		
Test Machine:	Shimadzu AGS-X 300 kN UTM	Test Speed:	5 mm/min

Results:

The force vs displacement results of the four samples tested is shown in Figure 2. The maximum compressive force and final thickness after compression for each sample are shown in Table 1. The samples were tested to a maximum deflection of 4 mm to account for the thickness of the collapsed board.

Table 1. Compressive Strength Results

Specimen ID	Maximum Compressive Force (kN)	Final thickness after compression (mm)
1	52.8	4.48
2	36.2	4.19
3	37.1	4.42
4	47.9	4.35

The Chief HD board samples achieved a minimum compressive force of 36.2 kN, equivalent to 3.69 tonne, at maximum deflection of 4 mm. No clear yielding of the material was exhibited, except in the case of specimen 1. The samples were permanently deformed to a final thickness of 4.19 – 4.48 mm.

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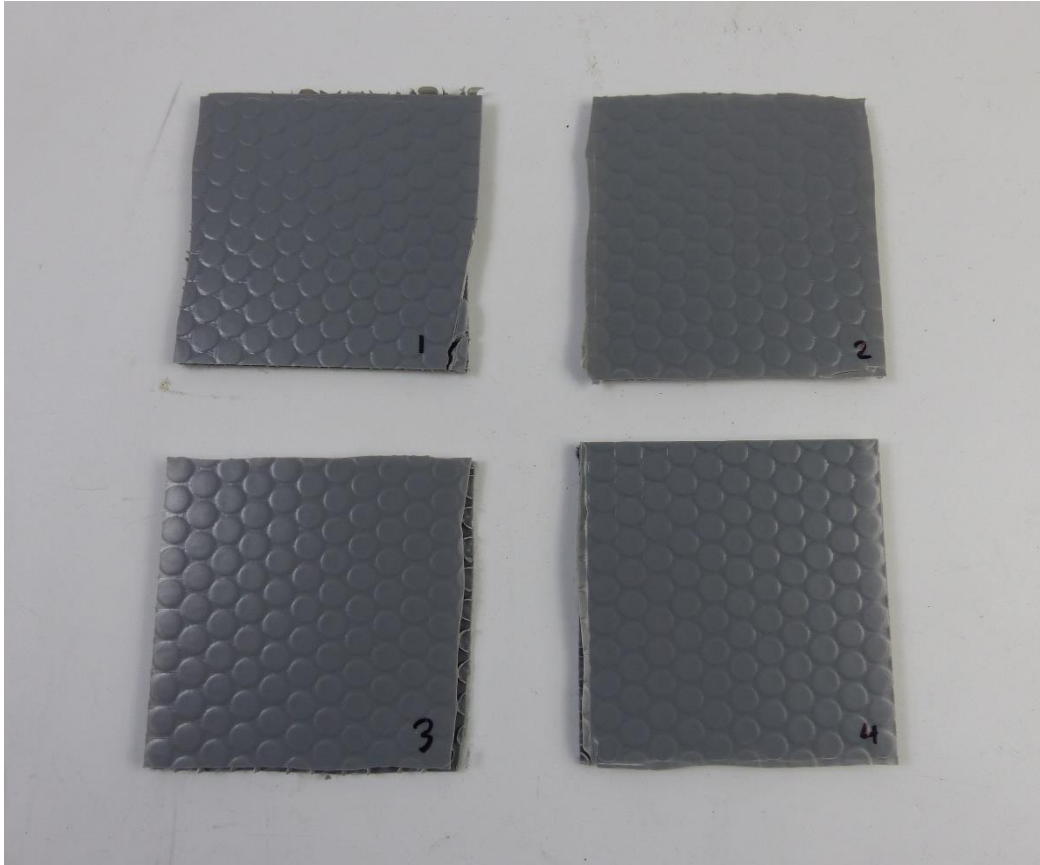


Figure 1. Test Samples.

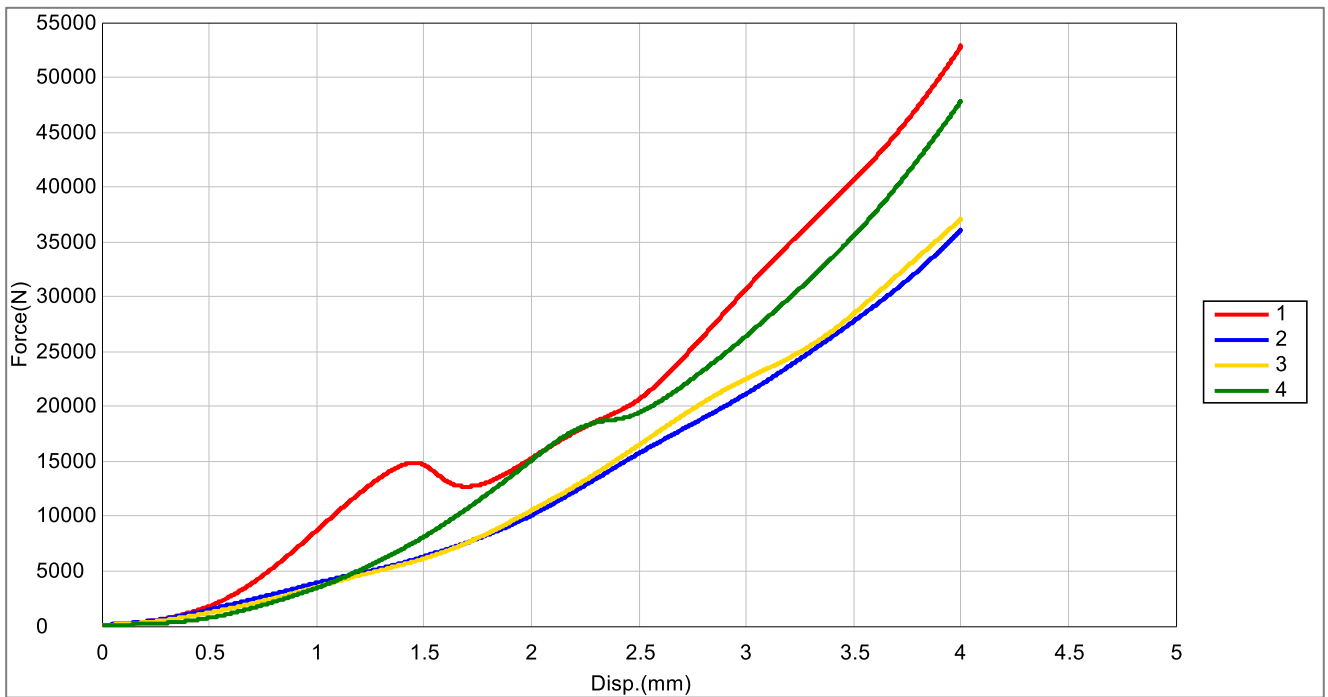


Figure 2. Test Results.