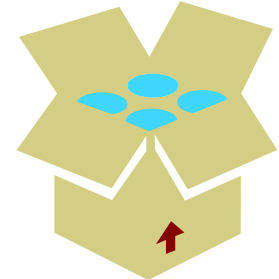


Revision to TAPPI-T810 Bursting Strength Test for Carton Board

The TAPPI standard *T 810 om-06, Bursting Strength of Corrugated and Solid Fiberboard* was published in January 2006 to replace the 1998 version.

This method was revised to describe a procedure for measuring the bursting strength of single wall and double wall corrugated and solid fiberboard within the range of 690 kPa (100 psi) to 4825 kPa (700 psi) employing a disk shaped, molded diaphragm type instrument. This method, however, is not applicable for triple wall corrugated board.



For bursting strength of *paper*, *TAPPI T 403* is followed.

For bursting strength of *paperboard and linerboard*, *TAPPI T 807* is followed.

For Solid Fiberboard testing, the 1998 version adopted the same clamping pressure of 690 kPa (100 psi) for bursting strength test. While in the new revision (2006 version), a series of clamping pressure (see **Table 1**) was recommended for different bursting strength.

Table 1 – For Solid Fibreboard Testing Only

Bursting Strength		Clamping Pressure	
kPa	Psi	kPa	Psi
Up to 1500	Up to 218	400	58
1500 to 2000	218 to 290	600	87
2000 to 2500	290 to 362	800	116
Over 2500	Over 362	1000	145

For Corrugated board, the clamping pressure is defined by means of the penetration depth (see **Table 2**) of the top compression platen ring into the board.

Table 2 – For Corrugated Board Testing Only

Flute Type	T 810 om-06	T 810 om-98
	Penetration Depth, mm (inch)	Penetration Depth, mm (inch)
A	2.08 ± 0.05 (0.082 ± 0.002)	2.08 ± 0.05 (0.082 ± 0.002)
B	0.81 ± 0.05 (0.032 ± 0.002)	0.81 ± 0.05 (0.032 ± 0.002)
C	1.62 ± 0.05 (0.064 ± 0.002)	1.62 ± 0.05 (0.064 ± 0.002)
E	0.40 ± 0.05 (0.016 ± 0.002)	---
Double Wall	3.05 ± 0.07 (0.12 ± 0.003)	3.05 ± 0.07 (0.12 ± 0.003)

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