

SGS STUDIES SUMMARY

Independent tests conducted by SGS U.S. Testing Company Inc. repeatedly prove that using reinforced water-activated tape (WAT) and automated dispensing saves time, material and money. The proof is in the results...

Wherever strength, security and productivity are important, WAT consistently outperforms plastic pressure-sensitive tape (PST). Also, automation with Better Pack® dispensing systems significantly increases the efficiency of the packaging process.

Complete details of the SGS Studies are available at www.BetterPackages.com. Go to **Education and Solutions** and then click on **SGS Tape Tests**, or send an email to info@betterpackages.com to request the report documents.

COMMON PACKAGING TAPE TERMS

Paper Water-Activated Tape

WAT, paper tape, reinforced tape, gum tape, gummed tape, reinforced gummed tape, RGT, non-asphaltic tape, Kraft (non-reinforced tape)



Plastic Pressure-Sensitive Tape

PST, PS tape, plastic tape, transfer tape



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Packaging Series Reference Number ED1008

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**INDEPENDENT
PACKAGING
EFFICIENCY
TESTING**

**SGS STUDIES
SUMMARY**

Educational Brochure
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SGS Study Report No. 134992-1

Study Objectives

- Measure time needed to seal tops and bottoms of 100 corrugated cartons
- Record the amount of PST and WAT needed to close 100 corrugated cartons
- Analyze the integrity of the closure of PST and WAT

Study Findings

- 15% more PST is needed to close 100 cartons.
- 16% more time is needed to apply PST using a hand applicator.
- 99% of cartons closed with PST are easily opened and resealed, leaving little or no visual evidence.
- 100% of cartons sealed with WAT were pilfer-proof.

SGS Study No. 134992-1	Test 1	Test 2
Tape brand	Central reinforced WAT	3M #375 PST
Tape length needed	27 inches	27 to 30 inches
Number of strips needed to close 100 20 inch corrugated cartons	200	230
Time required	48 min 17 sec	55 min 55 sec
Number of pilferable cartons	0	99

SGS Study Report No. 149698

Study Objectives

Compare the time needed to seal 100 random size cartons* (see description at right) using three methods:

- PST applied with a hand applicator
- WAT dispensed with an electric dispenser
- WAT dispensed using an automated measuring system and electric dispenser

Study Findings

- Sealing 100 random sized cartons with PST and a hand applicator required the most time.
- Using an electric dispenser and WAT required 4% less time.
- Using a Better Pack[®] 555eSA with automatic measuring device required 28% less production time.

SGS Study No. 149698	Test 1	Test 2	Test 3
Tape brand	BetterSeal Secure Tape [®] reinforced WAT	BetterSeal Secure Tape [®] reinforced WAT	3M #371 PST
Equipment used	Better Pack [®] 555eSA with AMD system	Marsh Electra S/N 4634	Manco hand applicator
Time required	31 min 35 sec	39 min 06 sec	40 min 35 sec

Note: 17 seconds spent finding end of tape after falling off applicator

SGS Study Report No. 149698

Description of Cartons Used for Study

*Carton Quantities	Carton Sizes
33	8 inches long
34	11.5 inches long
33	14 inches long

SGS Study Report No. 150215

Study Objective

- Evaluate the integrity of the seal of 100 corrugated cartons closed with PST and WAT.

Study Findings

- 96% of the cartons sealed with PST were easily opened, leaving no visible evidence they had been opened.
- 100% of the cartons sealed with WAT could not be opened without leaving significant damage to the carton and tape.

SGS Study No. 150215	Test 1	Test 2
Tape brand	BetterSeal SecureTape [®] reinforced WAT	3M #371 PST
Number of cartons sealed	100	100
Number of pilferable cartons	0	96