DTC
Dynamic Testing Consultants

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Hot Tack Tester
Model 52-F/300

THE POWERFUL INSTRUMENT FOR TESTING HEAT SEALS AND PROCESS SIMULATION

Modern packaging processes demand high quality packaging materials and exact knowledge of their processing properties. To meet the testing requirements, DTC has developed the ideal testing instrument for evaluation of Heat Seal properties and processing parameters:
DTC Hot tack tester model 52-F/300.

The instrument is based on state-of-the-art electronics and software development, and over 30 years of practical experience in Heat Seal testing. It will satisfy the highest demands in testing versatility and precision, as well as high test production volume.
The instrument is equally well suited for Research and Development as for Quality Assurance. The instrument and its testing procedure are approved for Testing of Heat Sealing Properties (Hot tack) acc. to **ASTM F 1921, method B.**

LAYOUT
- Clearly arranged controls and displays on the front panel,
- Minimized operator influence on handling.

MECHANICAL HIGHLIGHTS
- Specimens are simple whole-length straight cut strips for easy handling, **AND**

- Specimen feed and fold is automated,
- Specimen clamps are foot pedal controlled,
- Precision servo controlled pull actuator,
- Rugged mechanical design,
- Overload protection for the load cell.

MANUAL OPERATION
For occasional odd tests and check functions, controlled by key pad with LED indication.

ELECTRONICS
- Easy accessible and service friendly, state-of-the-art electronic circuitry,
- Fully opto-isolated digital and analogue in/out ports for high reliability and signal integrity.

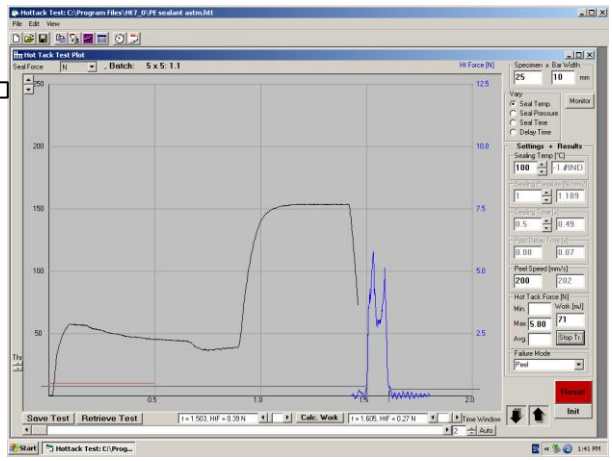
SOFTWARE
- MicroSoft Windows7 user friendly Interface (Operating system), USB connection to PC.
- DTC test software Wintack featuring:
- Intuitive graphic presentation of each test provides immediate acceptance decision for the operator,
- Numeric capture of the Hot tack value,
- Cursor for capture of specific values and energy absorption of the peel process,
- Database storage of test results and parameter sets,
- Customized routines for easy data transfer to MicroSoft Excel sheets for numeric and graphic test reports - both single batch tests and comparative presentation of several tests,
- Customized Summary reports ready for presentation,
- Powerful diagnostic routines for service.

Other features
- Sealing of different materials together is possible, both flexible and /or stiff materials
- Sealing with two different seal bar temperatures is possible.

Main Specifications

Sealing temperatures: ambient....400° C
(with PTFE covers: ambient....250° C)
Sealing time 0.05.....60 s
Sealing force 10.....250 N
Delay time 0.05.....60 s
Peel speed 5.....400 mm/s
Hot tack force ranges:
0 – 10, 0 – 100 N selectable,
accuracy < 0.25 % o.r.

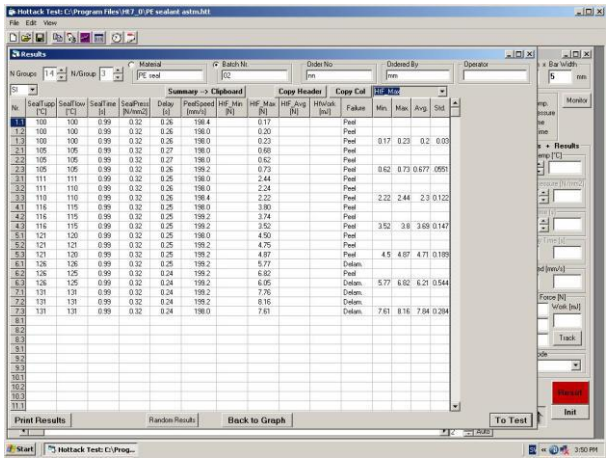
Test Graph



Options

- ► Outside cooling dwell
- ► Trim seal (edge seal) tools
- ► Impulse sealing accessories
- ► Tensile test module for measuring cold seal strength
- ► Custom seal bars & software
- ► Specimen cutter SC199
- ► Windows 8 user interface
- ► Hardware & software for testing according to ASTM F 1921- Method A

Test Result



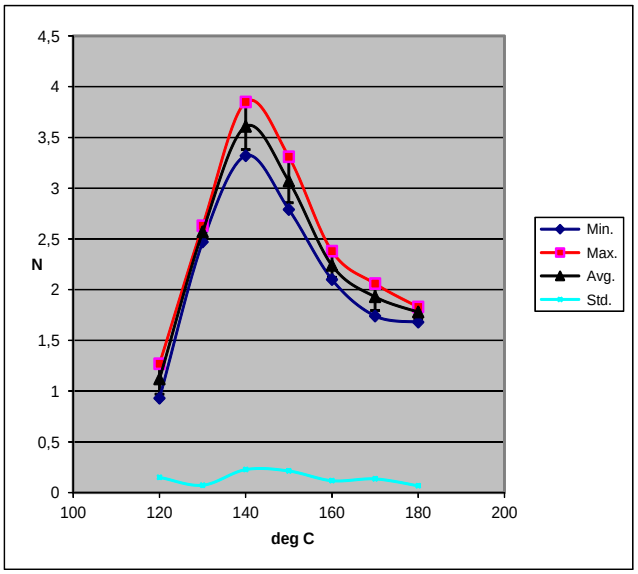
Summary Report

Material:	TP	**SealTemp:**	Vary
Batch Nr:	1	**Seal Time:**	0,5
Testpar:	AMC41109	**SealPress:**	0,5
Operator:	nn	**Delay time:**	0,20
Created:	2002-06-06	**PeelSpeed:**	200

7 Groups: 4 pcs./group

SealTemp	HtF_Max Min.	Max.	Avg.	Std.
120	0,93	1,27	1,12	0,15
130	2,47	2,63	2,57	0,0735
140	3,32	3,85	3,61	0,228
150	2,79	3,31	3,07	0,214
160	2,1	2,38	2,24	0,118
170	1,74	2,06	1,93	0,136
180	1,68	1,83	1,78	0,0678

spec. width 25 mm



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