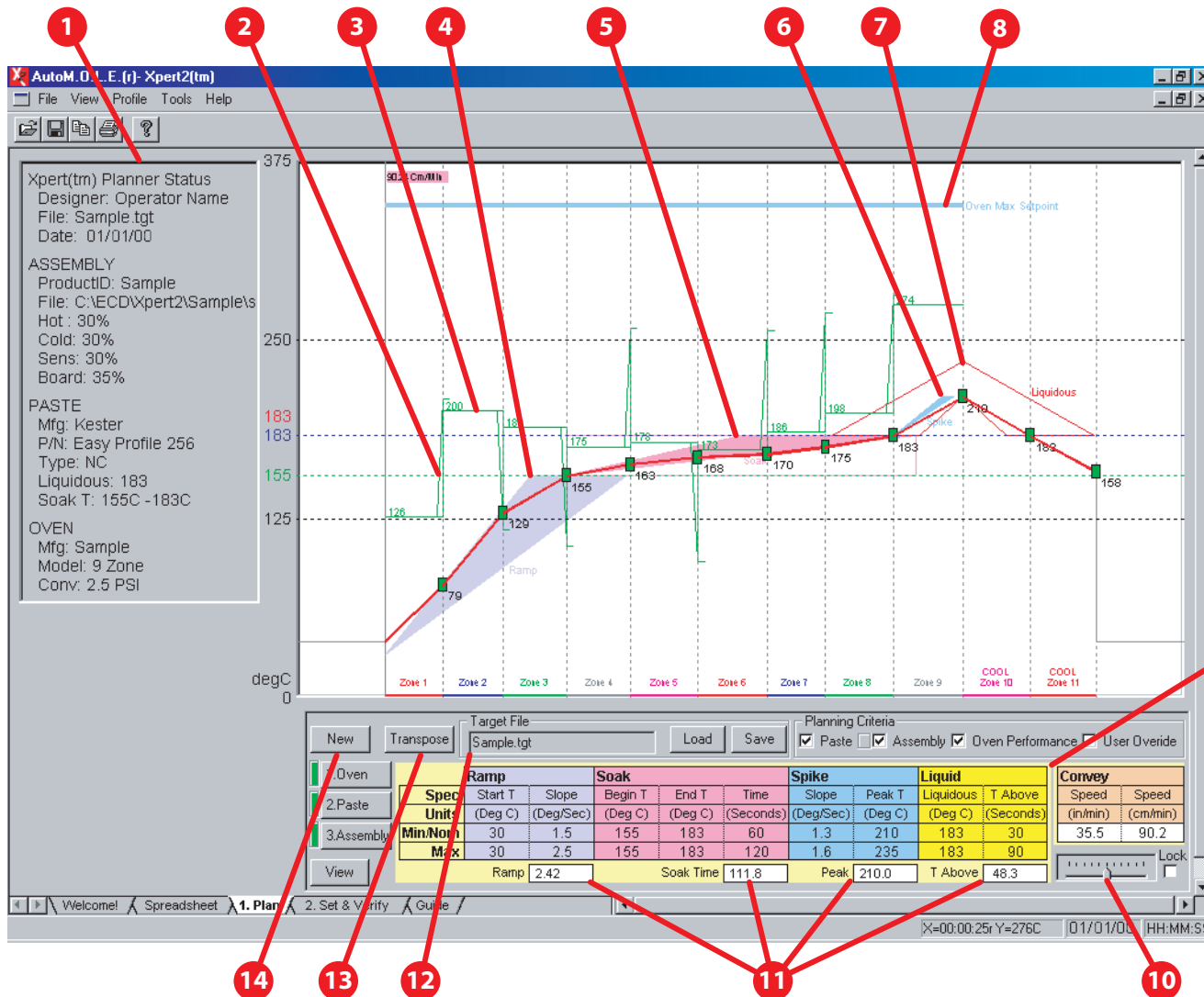




QUICK STUDY GUIDE



- 1 Target Profile Parameters:** This Status box contains information about the designed Robust Profile.
- 2 Zone Max. Deltas:** Largest zone temp. setpoint difference the oven allows
- 3 Typical Setpoints:** These are a range of Setpoints based on a .062" (1.6mm) board.
- 4 Paste Spec. Ramp:** The straight-line slope in degrees per second measured from the intersection of the Process Origin and the Start Temp to where the profile reaches the Soak Begin Temp.
- 5 Paste Spec. Soak:** The number of profile temperature values that fall between Soak Begin Temp and Soak End Temp Times the log interval.
- 6 Paste Spec. Spike:** The straight line slope in degrees per second measured from where the profile reaches the Soak End Temp to where the profile reaches a Peak temp value.
- 7 Paste Spec. Liquidous:** The amount of time the profile spends above the solder liquidous temperature.
- 8 Zone Max. Setpoint:** The highest zone setpoint that the oven allows.
- 9 Paste Spec. Summary:** The summary of the selected Target Profile paste.
- 10 Speed Adjust:** Manually adjusts the oven conveyor speed for the Target Profile.
- 11 Robust Profile Actuals:** Profile Parameters extracted from the Robust Profile.
- 12 Target File Management:** Where the user Loads and Saves Target Profiles.
- 13 Transpose Profile Wizard:** A wizard that guides a user when creating a new Target Profile from an existing profile (MDM file).
- 14 New Target Profile Wizard:** A wizard that guides a user when creating a new Target Profile.



QUICK STUDY GUIDE

1. Oven Specifications

Oven Manufacturer - Name
Sample - 9 Zone

Convection Value
2.5 PSI

Name	Type	Max (Deg C)	+Delta (Deg C)	-Delta (Deg C)
Zone 1	Heating	343	83	83
Zone 2	Heating	343	83	83
Zone 3	Heating	343	83	83
Zone 4	Heating	343	83	83
Zone 5	Heating	343	83	83
Zone 6	Heating	343	83	83
Zone 7	Heating	343	83	83
Zone 8	Heating	343	83	83
Zone 9	Heating	343	83	83
Zone 10	Cooling	343	83	83
Zone 11	Cooling	343	83	83

Write Mailbox Next > Cancel

2. Paste Specification

Paste Manufacturer - P/N - Type - Liquidous
Kester - Easy Profile 256 - NC - 183

Spec	Units	Nom/Min	Max
Ramp			
Slope (Deg/Sec)		1.5	2.5
Begin T (Deg C)		155	155
End T (Deg C)		183	183
Time (Sec)		60	120
Spike			
Slope (Deg/Sec)		1.3	1.6
Peak T (Deg C)		210	235
Liquid			
Liquidous (Deg C)		183	
Time Above (Sec)		30	90

Apply Cancel

AutoM.O.L.E.Xpert2(tm)

Xpert(tm) Planner Status
Designer: Operator Name
File: Sample.tgt
Date: 01/01/00

ASSEMBLY
ProductID: Sample
File: C:\ECD\Xpert2\Sample's
Hot: 30%
Cold: 30%
Sens: 30%
Board: 35%

PASTE
Mfg: Kester
P/N: Easy Profile 256
Type: NC
Liquidous: 183
Soak T: 155C -183C

OVEN
Mfg: Sample
Model: 9 Zone
Conv: 2.5 PSI

degC

Target File: Sample.tgt

Planning Criteria: Paste Assembly Oven Performance User Override

Spec	Ramp	Soak	Spike	Liquid	Convey
Units	Start T (Deg C)	Slope (Deg/Sec)	Begin T (Deg C)	End T (Deg C)	Time (Seconds)
Min/Nom	30	1.5	155	183	60
Max	30	2.5	155	183	120

Ramp: 2.42 Soak Time: 111.8 Peak: 210.0 T Above: 48.3

PLAN WORKSHEET

Process Planner View

Oven

- Typical Setpoints
- Zone Max Deltas
- Zone Max Setpoint

Miscellaneous

- Paste Spec
- All Components

OK

Paste Specifications

GEN_MFG	GEN_P/N	GEN_TYPE	GEN_LIQ	RAMP_MI	RAMP_M	RAMP_RE	RAMP_NO	S
General	General	General	General	Ramp	Ramp	Ramp	Ramp	
Manufacturer	P/N	Type	Liquidous	Min	Max	Ref	Nom	
			Deg C	C/Sec	C/Sec	C/Sec	C/Sec	
AIM	251	NC	183	2	3	2.5	2.5	1
AIM	251(Ag)	NC	179	2	3	2.5	2.5	1
AIM	291 AX	NC	183	2	3	2.5	2.5	1
AIM	291 AX(Ag)	NC	179	2	3	2.5	2.5	1
AIM	293DX	NC	183	2	3	2.5	2.5	1
AIM	293DX(Ag)	NC	179	2	3	2.5	2.5	1
AIM	293+	NC	183	2	3	2.5	2.5	1
AIM	293+(Ag)	NC	179	2	3	2.5	2.5	1
AIM	293V	NC	183	2	3	2.5	2.5	1

Load Add Cancel OK

3. Assembly Properties

Component

	Hot	Cold	Sensitive
Max Ramp(deg/sec)	4.0	4.0	3.5
Peak(deg C)	350	350	300

Synchronize

Product ID: Sample

Board Thickness: 32mm (0.125"), 2.4mm (0.093"), 1.6mm (0.062"), 0.8mm (0.031")

36%

Typical Settings: 30% 30% 30%

Back Finish Cancel

Camera Operations

Brightness Rotate Load OK

Contrast Save Cancel