SUPPLIER-SOURCED / PRINTABLE WORKSHOP RESOURCE

Sublimation Tumbler Time & Temperature Reference

20 oz examples • Tumbler press vs. convection oven • Printable settings and test record

Start with your exact blank, not a generic 400°F recipe. Settings below apply to the named supplier product and method. Check that product's current instructions, your press or oven manual, and the approved transfer wrap before production.

1 / TUMBLER PRESS SETTINGS

SOURCE + BLANK	TEMPERATURE	TIME + METHOD
Coastal 20 oz white stainless steel skinny tumbler	**325°F**	150–165 seconds, light pressure; 4-in-1 mug press with water-bottle element.
PYD Life Stainless steel tumbler (general guide; not a specific 20 oz SKU)	**356°F**	50 seconds; for full wrap, rotate and press again.
MakerFlo 20 oz skinny sublimation tumbler	**365°F**	40 seconds, rotate 180°, then press another 40 seconds.

2 / CONVECTION OVEN SETTINGS

SOURCE + BLANK	TEMPERATURE	TIME + METHOD
Coastal 20 oz white stainless steel skinny tumbler	**395°F in settings box** 400°F preheat in written directions	6–7 minutes; manufacturer says to test in your oven. See discrepancy note below.
PYD Life Stainless steel tumbler (general guide)	**356°F**	6 minutes for 1 item; 8 minutes for 4 items.
MakerFlo 20 oz skinny sublimation tumbler	**375°F**	5–6 minutes; if lying horizontally, rotate 180° halfway through.

Important Coastal source discrepancy: Its 20 oz white tumbler product page lists **395°F** in the oven settings box but says to **preheat to 400°F** in the written directions. Verify with the supplier rather than averaging the two values.

Not a universal chart. These examples are not interchangeable. Different suppliers, coatings, press elements, wrap methods and oven loads can require different settings. Never use ordinary plastic drinkware without explicit manufacturer approval for the method.

PROCESS / QUALITY CONTROL

Before You Press a Tumbler

Use this checklist to protect your blank, your equipment and your production time.

01 **Identify the blank.** Confirm supplier, SKU, coating and whether it is sublimation-ready.

02 **Check the machine fit.** Match diameter and contact area to the heating element; use oven methods only when the blank and equipment permit them.

03 **Confirm the method.** Record press vs. oven, wrap type, supplier temperature, time and any rotation/pressure instructions.

04 **Prepare safely.** Remove lids and other heat-sensitive parts as instructed; work with ventilation, heat protection and a heat-safe surface.

05 **Keep the transfer still.** Secure paper using the supplier-approved tape/wrap; avoid slip during heating and removal.

06 **Test, inspect, log.** Use one approved blank, note the result, and change only one supported variable on the next test.

Troubleshooting: Check the cause before raising heat

WHAT WENT WRONG	CHECK FIRST	NEXT STEP
Pale / faded print	Blank coating; paper/ink; weak contact or incomplete heating	Verify the blank and source settings before changing heat.
Ghosting / double edge	Transfer movement during wrapping, turning or peeling	Tighten paper contact and avoid sliding while hot.
Pale band on full wrap	Unheated section; poor press contact; oven airflow	Check element coverage or supplier rotation instructions.
Yellowing / scorch marks	Excess heating or unsuitable coating	Stop the run; recheck SKU and method.
Horizontal lines	Printer nozzle, feed or print-settings issue	Run print-quality checks before changing press settings.

Verified primary sources

Each link opens the product or supplier settings page used for the comparison. Product details can change; checked October 30, 2026.

1. Coastal Business: 20 oz white stainless tumbler - product instructions

2. PYD Life: Sublimation settings guide - stainless steel

3. MakerFlo: 20 oz skinny sublimation tumbler - time/temperature

This reference summarizes supplier instructions; it is not an independent laboratory test or a claim that Subli Genius Print personally tested these blanks.

PRINT ONE COPY PER BLANK / TEST RUN

Tumbler Settings & Test Log

Record the exact blank and machine so a successful result can be repeated without guessing.

Record ID: _____ **Date:** _____ **Operator:** _____

BLANK + EQUIPMENT

Supplier / brand + product SKU	
Tumbler size, coating, shape + diameter	
Press / oven model + heat element or mat	
Design / ink / transfer paper / wrap	
Batch quantity + orientation / rotation plan	

SOURCE SETTINGS VS. ACTUAL TEST

RECOMMENDED BY BLANK SUPPLIER	ACTUAL TESTED SETTING
Temp (°F): _____	Temp (°F): _____
Time / number of cycles: _____	Time / number of cycles: _____
Pressure / oven wrap: _____	Pressure / oven wrap: _____
Rotation / paper removal: _____	Rotation / paper removal: _____

RESULT + NEXT TEST

☐ Even print ☐ Faded ☐ Ghosting ☐ Pale band ☐ Yellowing ☐ Other: _____

What happened / where?	
One change for the next test	

Production check: Before repeating a setting for a full batch, confirm that the blank SKU, heating equipment, wrap/contact method and supplier guidance still match this test.