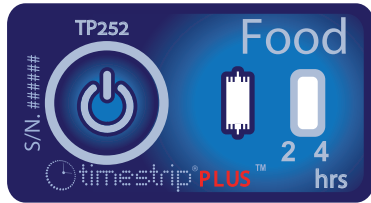


# Product Specification

## Food TP-252



### General:

Food is a Timestrip® temperature indicator that shows how long your product has been above refrigerated temperature (5 °C/41 °F).

Inert until activated and self-adhesive, it can be stored at room-temperature then stuck to a product or package when needed (see Appendix 1 for adhesive details). It is single use and indication is irreversible. It is splashproof and there is an expiry date on each pack shipped.

### How to use:

The indicators are completely inert prior to activation and can be stored at room temperature.

To activate Food the surrounding temperature must be at or above the threshold temperature of 5 °C so that the blue liquid can be released from the button. Fully squeeze the button and check that the word 'On' appears. If not, immediately re-squeeze the button fully. Within 2-3 minutes of activation, place the indicator below its STOP temperature for a minimum of 1 Hour so that the liquid freezes and the indicator is fully conditioned and ready to use. If the carrying card or the product to be monitored is already at or below the STOP temperature then the indicator can be stuck directly to it by removing the adhesive liner on the back.

Threshold Temp	Stop temp*	Run-Out window**	Time Marks in Hours
+5 °C/+41 °F	+3 °C/+37 °F	4 Hours	2&4

\* The temp at which the run-time advancement (the movement of the blue dye) will stop.

\*\* The run-out window is calibrated to an isothermal temp of +2 °C above the stated/printed Threshold temp.

### I) Performance Specifications:

- Temp Accuracy: ± 1 °C/2 °F
- Time Accuracy: ± 15 % in time under isothermal conditions
- Progress Isotherms: See Fig. 1
- Display: Continuous, irreversible
- Usage: The usage of the product in any assembly or production line must be agreed upon in advance, as it may alter performance specifications.

### II) Product Specification:

- Button Position: Button on Top (BOT)
- Colour of Progressing Front: Blue
- Adhesive: #2641, Pressure sensitive, -40 °C to +110 °C, Finger lift –See Appendix 1
- Product drawing: See Fig. 2
- Graphics: See Fig. 3
- Other: Not suitable for immersion in water
- Remark: Run-time window length will vary slightly between production batches.

### III) Product Construction:

The indicator is constructed of polymeric assembly multi-layer and aluminium-plastic laminate. It encapsulates coloured liquid chemicals\*.

\* Maximum weight of colorant is <0.5 mg.

\*\* Liquid chemicals are listed in the Food Chemicals Codex and/or approved by the Food and Drug Administration (FDA) under Title 21, and/or considered generally recognized as safe (GRAS).

\*\*\* All materials are non-toxic, latex, silicon and PVC free.



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**IV) Storage Conditions (un-activated):**

- Store in a cool dark environment away from heat sources.
- Recommended: 22 °C/72 °F at 20-80% RH.
- Please note that before activation, the product can tolerate short term exposure. during transit (hours or a few days) to temperatures in the range -30 °C to +55 °C. However, long term storage should be under recommended conditions.

**V) Shelf-life:**

- 2 Years – an expiry date is stated on each pack.

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Fig 1: Progress Isotherm

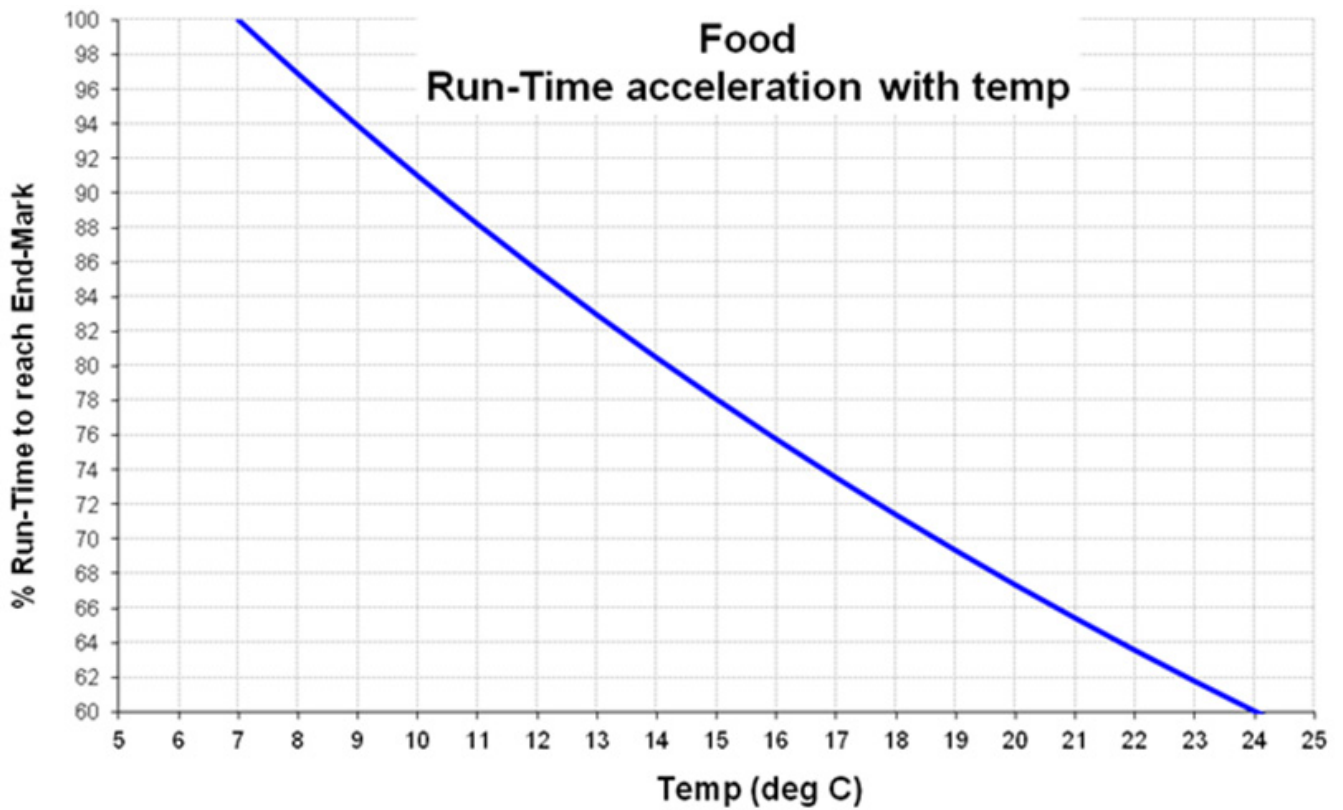


Fig 2: Product Drawing

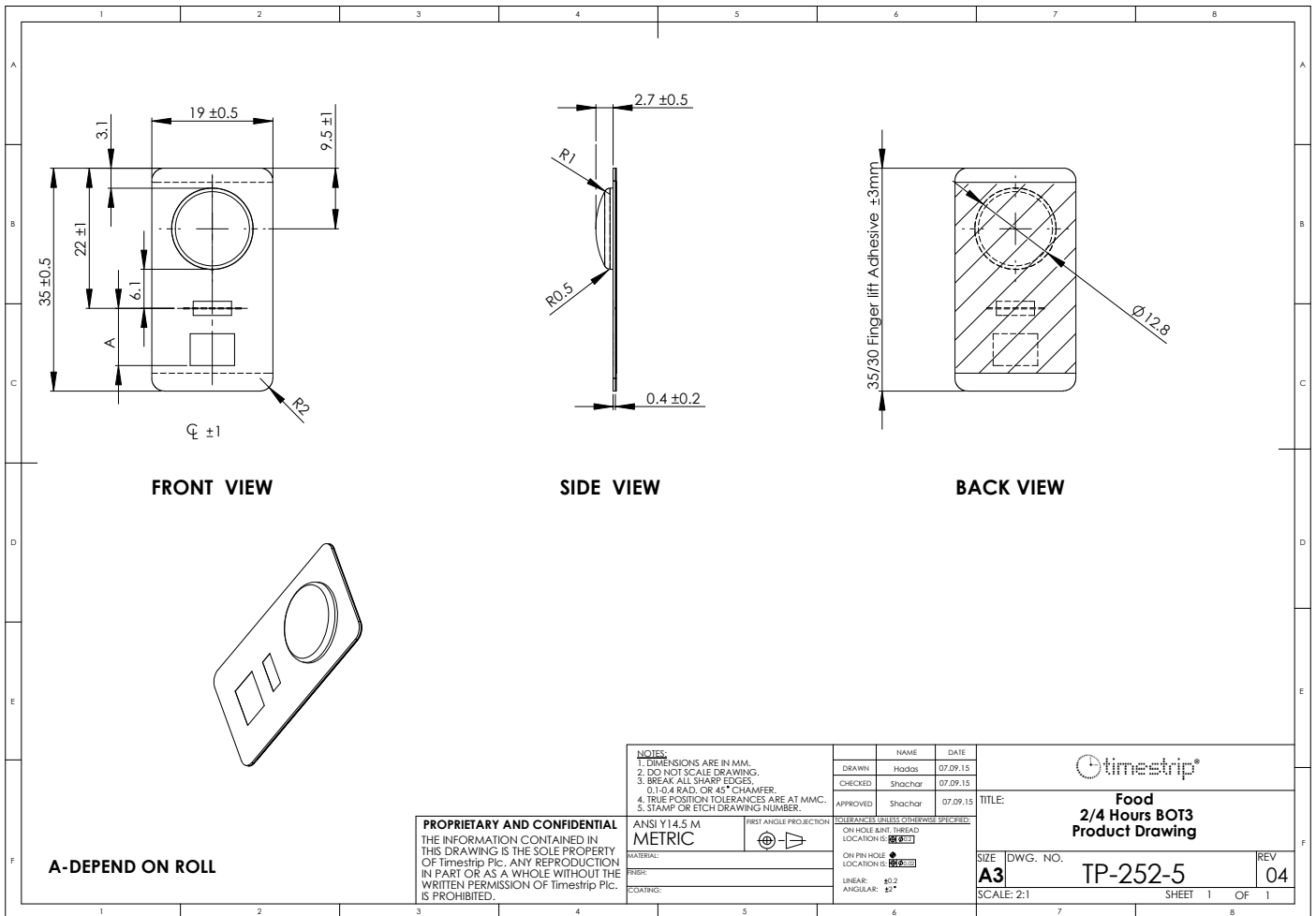


Fig 3: Graphics

