

Reversible

Digital Thermo Tape®

RoHS Compliant

POINT!!

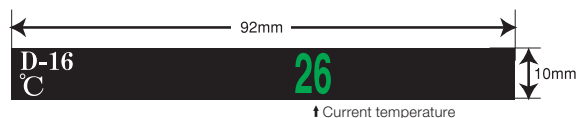
Show current temperature as a number (in green)

Features

- Encapsulated liquid crystals are printed to polyester film using a special technique.
- Color changing occurs as numbers appear and disappear. Simply take the green number as the current temperature.
- The numbers change color in this order as the temperature rises: black → red-brown → green → blue → navy blue. As the temperature decreases, the numbers return to their original color in reverse order.

D

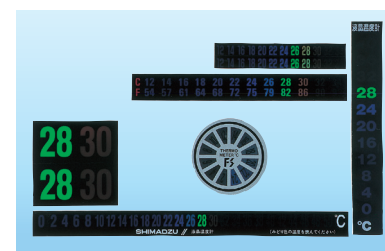
- Ascertain the current temperature from a liquid-crystal indicator



Food hygiene cards

Type	Temperature range°C	Temperature interval	Color-change accuracy	JAN code
D-M20	-20 ~ 0	2°C	±1.0°C	4582130422656
D-M6	-6 ~ 14		±0.5°C	4582130422663
D-06	6 ~ 34			4582130422670
D-16	16 ~ 36			4582130422687
D-38	38 ~ 58	5°C	±2.0°C	4582130422694
D-50	50 ~ 100			4582130422700

30 labels per box



Example of a customized design

Reference Data

1. Heat resistance

D-M20 to D-50 (continued heating at 60°C): 1,000 hours at 60°C

D-50 (continued heating at 120°C): 10 hours at 120°C

(continued heating at 110°C): 30 hours at 110°C

(continued heating at 100°C): 60 hours at 100°C

2. Water resistance (submersion in water)

Up to 3 hours

3. Weather resistance

Accelerated weathering test with weather meter

D-M20: 50 hours

D-06: 20 hours

D-38: 50 hours

D-M6: 20 hours

D-16: 20 hours

D-50: 50 hours

4. Humidity resistance (below 70% relative humidity)

No problems

Water, heat and weather resistance can be enhanced by laminating with non-permeable film.

5. Response speed

Up to 1 sec.

Caution on Use

- If Digital Thermo Tape® is left for long periods in areas exposed to direct sunlight or areas of high humidity, the UV light or moisture may affect the properties, and therefore the color-changing capability, of the liquid crystals.
- Digital Thermo Tape® has no resistance to acids and alkalis.
- Avoid contact with organic solvents.
- With D-50, the numbers may start to pale if heated for around 10 hours at 100°C, but color-changing performance will not be affected. Also, green numbers may appear simultaneously in low- and high-temperature areas during temperature decrease. In this case, the higher temperature is the current temperature.
- As a guideline, this product should be used indoors and for up to 3 years.