Reversible

Digital Thermo Tape™

RoHS Compliant

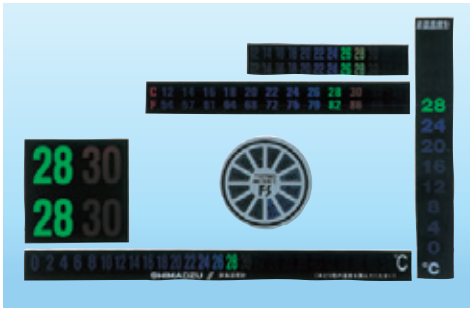
■ **POINT!!** Show current temperature as a number (in green)

Features

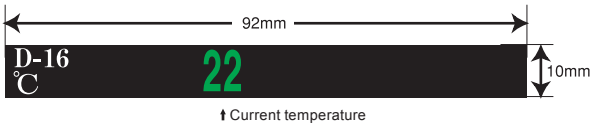
- Encapsulated liquid crystals are printed to polyester film using a special technique.
- Color changing occurs as numbers appear and disappear. Simply take the green number as the current temperature.
- The numbers change color in this order as the temperature rises: black → red-brown→ green→ blue→navy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



Example of a customized design



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

30 labels per box

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.