WARMMARK
THERMOLABELS

BEFORE   AFTER

Model 51013
0°C/ 32°F

Model 51020
30°C/ 86°F

Model 51014
5°C/ 41°F

Model 51021
37°C/ 99°F

Model 51017
10°C/ 50°F

Model 51022
8°C/ 46°F

Model 51018
20°C/ 68°F

Model 51034
-18°C/ 0°F

Model 51035
25°C/ 77°F

- Designed for accurate time/ temperature monitoring at the lowest possible cost

- Provides a permanent temperature exposure record that assures your customers of consistent quality

- A blotter paper pad saturated with a red-dyed chemical is specially formulated to melt at the tag's response temperature

- Available in a variety of response temperatures

- Easy to use

Temperature Range	-18°C/0°F to37°C/ 99°F
Accuracy	±1°C of its response time
Tag Size	.75 in. x 1.81 in. x .06 in. (1.9 cm x 4.6 cm x .15 cm)

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WarmMark™ THERMO LABELS

Application is Simple

WarmMark's construction makes it fast and simple to add the benefits of time/temperature monitoring to your product.To prepare the WarmMark Tag for use, store the tag for a minimum of 30 minutes at least 5°C below the response temperature. Then apply the WarmMark Tag by peeling the release liner off the back of the tag and adhering the pressure sensitive adhesive backing to a dry surface. Activate the label by removing the tab. From that point on WarmMark will monitor your product until it reaches its destination.

Here's How WarmMark Works

WarmMark operation is simple but accurate. First, remove the WarmMark activation tab and the attached strip of barrier film, bringing the track strip and the saturated pad inside the tag in direct contact with each other. Then, if the tag is exposed above its response temperature, the chemical in the pad melts and begins to migrate down the track strip and color in the circular windows at a controlled rate. Whenever the temperature falls below the response temperature, migration of the chemical stops. Accuracy of the WarmMark Tag is guaranteed to be within 1°C above or below the response temperature.

RUN-OUT TIME: The run-out time varies among the different response temperatures. Following are the run-out times required to fully color in each of the three windows when the tag is exposed to 2 degrees Celsius above the response temperature noted on the tag. Color change is irreversible and tamper-proof.

PRODUCT NO.	RESPONSE TEMP	WINDOW #1	WINDOW #2	WINDOW #3
51013	0°C / 32°F	2 Hr (±0.4 Hr)	12 Hr (±1 Hr)	48 Hr(±2 Hr)
51014	5°C / 41°	20 Min (±5 Min)	2 Hr (±.4 Hr)	8 Hr (±0.75 Hr)
51017	10°C / 50°F	2 Hr (±0.4 Hr)	12 Hr (±1 Hr)	48 Hr (±2 Hr)
51018	20°C / 68°F	2 Hr (±0.4 Hr)	12 Hr (±1 Hr)	48 Hr (±2 Hr)
51020	30°C / 86°F	20 Min (±5 Min)	2 Hr (±0.4 Hr)	8 Hr (±0.75 Hr)
51021	37°C / 99°F	20 Min (±5 Min)	2 Hr (±0.4 Hr)	8 Hr (±0.75 Hr)
51022	8°C / 46°F	2 Hr (±.4 Hr)	12 Hr (±1 Hr)	48 Hr (±2 Hr)
51034	-18°C / 0°F	20 Min (±5 Min)	2 Hr (±0.4 Hr)	12 Hr (±0.75 Hr)
51035	25°C / 77°C	30 Min (±5 Min)	2 Hr (±0.4 Hr)	8 Hr (±0.75 Hr)