

## PRODUCT DATA SHEET OF

# VPL THERMO LABELS - TEMPERATURE INDICATING LABELS / STRIPS

A simple cost effective and accurate temperature measurement can be made using VPL Irreversible temperature sensing labels / strips (VPL Labels). Temperature strips / Labels are known as thermo labels, temperature indicator strips, temp stickers, thermo strips and temperature sensing labels etc.

### Features of the product:

- Calibrated at  $\pm 1\%$  accuracy
- Self-adhesive
- Oil, water and steam resistant
- Rate of response: 5 to 10seconds
- Irreversible color change
- Simple, reliable and cost effective
- Shelf life- One year

**Temperature ranges:** Tempindic Crayons starts from 38°C/100°F to 230°C /446°F

**Temperature Intervals:** 5, 10, 15, 20 and 25 deg C /Deg F intervals.

**Different Levels:** Single, double, three, four, five, six, seven, eight, nine and ten level.

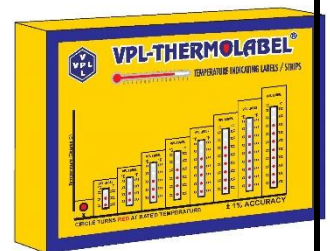
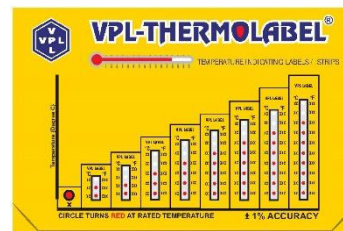
**Applications:** To monitor the surface temperature of an object, the desired temperature strip should be affixed on to a surface of the object. The white colored circle changes from WHITE to RED color as soon as the surface of the object attains the rated temperature of the circle.

**Usage:** After Remove the adhesive outer liner then stick label on a clean and dry surface of the test component. Once the test component reaches to the temperature of the pasted label, the white circle turns to red (irreversible).

**Storage Conditions:** Store in a cool, dry place (< 25°C/77°F and 45 to 50% relative humidity).

### User Industries:

- High voltage switching, Wave soldering
- Overheat detection of mortar and Cable etc
- Baking, Dish washing
- Printed circuit boards, Semi-conductor cabinets
- Casting, Moulding, Rubber extruding
- Cooling water radiator, Wind tunnel
- Warranty abuse monitor etc
- Textile Processing



**Note:** To the best of VPL Chemicals knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. Data may be changed from time to time.

## P: Single Step Thermo Labels (VPLX)

### Single Steps Labels: CODE VPLPX

°C	37	40	42	43	44	46	49
°F	99	104	108	109	111	115	120
°C	54	60	62	65	71	77	82
°F	129	140	144	149	160	171	180
°C	88	93	99	104	110	116	121
°F	190	199	210	219	230	241	250
°C	127	132	138	143	149	154	160
°F	261	270	280	289	300	309	320
°C	166	171	177	182	188	193	199
°F	330	340	351	360	370	379	390
°C	204	210	216				
°F	399	410	421				

**Label Dimension:**

**Size** : 10 x 10 mm

**Label Type** : Self Adhesive

**Packing** : 100 Labels



X- TEMPERATURE

## Q : Four Step Thermo Labels

Code		Four Steps Labels															
VPLQ1	°C	37	44	49	54	VPLQ6	°C	93	99	104	110	VPLQ11	°C	160	166	171	177
	°F	99	111	120	129		°F	199	210	219	230		°F	320	331	340	351
VPLQ2	°C	40	42	44	46	VPLQ7	°C	104	110	116	121	VPLQ12	°C	171	177	182	188
	°F	105	110	115	120		°F	219	230	241	250		°F	340	351	360	370
VPLQ3	°C	49	54	60	65	VPLQ8	°C	116	121	127	132	VPLQ13	°C	182	188	193	199
	°F	120	129	140	149		°F	240	250	260	270		°F	360	370	379	390
VPLQ4	°C	60	65	71	77	VPLQ9	°C	127	132	138	143	VPLQ14	°C	193	199	204	210
	°F	140	149	160	171		°F	261	270	280	289		°F	379	390	399	410
VPLQ5	°C	71	77	82	88	VPLQ10	°C	138	143	149	154						
	°F	160	171	180	190		°F	280	289	300	309						
	°C	82	88	93	99		°C	149	154	160	166						
	°F	180	190	199	210		°F	300	309	320	330						

**Labels Dimensions:**

**Size** : 28 x 16 mm, **Label Type** : Self Adhesive, **Packing** : 50 Labels

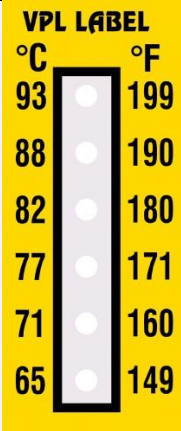
## R : Five Step Thermo Labels

Code		Five Steps Labels															
VPLR1	°C	38	40	43	46	49	VPLR6	°C	116	121	127	132	138				
	°F	100	104	109	115	120		°F	240	250	260	270	280				
VPLR2	°C	40	43	46	49	54	VPLR7	°C	132	138	143	149	154				
	°F	105	109	115	120	129		°F	270	280	289	300	309				
VPLR3	°C	49	54	60	65	71	VPLR8	°C	143	149	154	160	166				
	°F	120	129	140	149	160		°F	290	300	310	320	330				
VPLR4	°C	60	65	71	77	82	VPLR9	°C	160	166	171	177	182				
	°F	140	150	160	170	180		°F	320	331	340	351	360				
VPLR5	°C	77	82	88	93	99	VPLR10	°C	171	177	182	188	193				
	°F	171	180	190	199	210		°F	340	350	360	370	380				
VPLR6	°C	88	93	99	104	110	VPLR11	°C	188	193	199	204	210				
	°F	190	200	210	220	230		°F	370	379	390	399	410				
VPLR7	°C	104	110	116	121	127											
	°F	219	230	241	250	261											

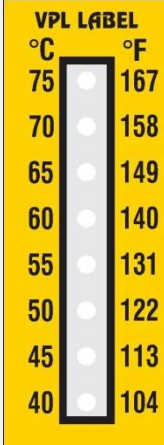
**Labels Dimensions:**

**Size** : 36 x 16 mm, **Label Type** : Self Adhesive, **Packing** : 50 Labels

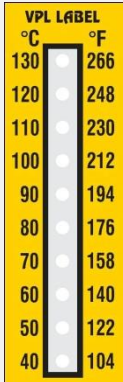
### S: Six Step Thermo Labels

Code	Six Steps Labels							<p><b>Labels Dimensions:</b>                      Size : 40 x 16 mm                      Label Type : Self Adhesive                      Packing : 20 Labels</p> 
VPLS1	°C	38	40	42	44	46	49	
	°F	100	104	108	111	115	120	
VPLS2	°C	44	46	49	54	60	62	
	°F	110	115	120	129	140	144	
VPLS3	°C	49	54	60	66	71	77	
	°F	120	130	140	150	160	170	
VPLS4	°C	65	71	77	82	88	93	
	°F	149	160	171	180	190	199	
VPLS5	°C	99	104	110	116	121	127	
	°F	210	219	230	241	250	261	
VPLS6	°C	132	138	143	149	154	160	
	°F	270	280	289	300	309	320	
VPLS7	°C	166	171	177	182	188	193	
	°F	331	340	351	360	370	379	

### T: Eight Step Thermo Labels

Code	Eight Steps Labels (5 Deg Intervals)									<p><b>Label Dimension:</b>                      Size : 44 x 16 mm                      Label Type : Self Adhesive                      Packing : 20 Labels</p> 
VPLH1	°C	38	40	43	46	49	54	60	65	
	°F	100	104	109	115	120	129	140	149	
VPLH2	°C	71	77	82	88	93	99	104	110	
	°F	160	171	180	190	199	210	219	230	
VPLH3	°C	116	121	127	132	138	143	149	154	
	°F	241	250	261	270	280	289	300	309	
VPLH4	°C	160	166	171	177	182	188	193	199	
	°F	320	331	340	351	360	370	379	390	

### U: Ten Step Thermo Labels

Code	Ten Steps Labels (5 Deg Intervals)											<p><b>Label Dimension:</b>                      Size : 50 x 16 mm                      Label Type : Self Adhesive                      Packing : 20 Labels</p> 
VPLJ1	°C	40	42	44	46	49	54	60	62	65	71	
	°F	104	108	111	115	120	129	140	144	149	160	
VPLJ2	°C	77	82	88	93	99	104	110	116	121	127	
	°F	171	180	190	199	210	219	230	241	250	261	
VPLJ3	°C	132	138	143	149	154	160	166	171	177	182	
	°F	270	280	289	300	309	320	331	340	351	360	

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