



Tempurtech Mfg. LLC
160 Benmont Ave.
Bennington, VT 05201

Email:
tempurtechsales@gmail.com

Phone: (802) 688-8919

ADVANCED CARBON TECHNOLOGY

Tempurtech's patented nano carbon sheet is the only heating element of its kind sold and manufactured in the United States. Where common heating elements use linearly temperature dependent wire resistance to generate heat, Tempurtech utilizes carbon excitation; the same principle that warms cellphone and computer batteries. Because of the material's Positive Temperature Coefficient, when the carbon is excited to its threshold temperature, it demonstrates a rapid exponential increase in resistance to reach its maximum designed temperature. When the maximum designed temperature is attained, resistance approaches infinity and current draw drops, ensuring that the heating element stays within its designed temperature range. Tempurtech's systems are designed to offer superior energy efficiency, durability, and safety.

Tempurtech's UL listed sheet heating element contains no internal wires that are typically vulnerable to shorting or burning out. Due to the nature of our heating element's PTC and material conditions, our mats may trip ground-fault circuit interrupters with lower (4-6mA) thresholds.

Tempurtech's mats meet all ETL design and component standards that meet or exceed UL standards.

MATERIALS

Mats are designed to be permanently chemically bonded or semi-permanently bonded to roofs using roofing seam tape or adhesive. All mats may be installed under new roofs or on top of existing roofs.

Average Weight: 0.375 lbs/sq ft.

Thickness: 1/8 inch

EPDM

EPDM rubber is extremely flexible in cold weather, very weather/UV resistant to ensure long operation life. EPDM mats may be walked on and rolled up and moved after use. You may nail through the mats, be sure to avoid the two marked lines on the mats

TPO

A very tough, extremely strong, stiff material that can be placed on TPO roofing or under it. This mat can be placed under concrete for heating sidewalks or walkways. We use this material specifically for our non-slip walkway safety mats.

CUSTOM WIDTH AND LENGTH SIZES AVAILABLE

Available Widths: 5" | 12" | 24" | up to 48"

Available Lengths: Up to 50' per mat. Multiple mats may be daisy-chained together.

ELECTRICAL REQUIREMENTS

All Tempurtech mats are available at the following voltages:

| | 5" Wide | 12" Wide | 24" Wide |
|-------|-------------|-------------|-------------|
| 110V | 0.11A/Ln ft | 0.18A/Ln ft | 0.36A/Ln ft |
| 220V | N/A | 0.11A/Ln ft | 0.16A/Ln ft |
| 277V* | N/A | 0.07A/Ln ft | 0.14A/Ln ft |

*Voltage for Hot Mat. Sustained temperature: 135°F. Use only if no other power option is available and only if roof warranty allows



DUNS
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NAICS
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