



A 0.3 mm thin carbon film heater which provides unbeatable heat.

PowerMelt is especially suitable for operating at sub zero temperatures and is not affected by the environment; it has excellent low water absorption and electrical properties. This is combined with very good resistance to chemical attack and high environmental crack resistance.

PowerMelt Data Sheet

PowerMelt is perfectly convenient for outdoor applications where an efficient and fast prevention of ice build-up on walkways, roofs, roads, bridges, drive-ways is required.



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Data Sheet

ENCAPSULATING MATRIX

(Standard)

	Physical Properties	Temperature max.
PETG/ SCRIM	<ul style="list-style-type: none"> Flexible Perforated 	150°C - 248°F
PETG/ SCRIM	<ul style="list-style-type: none"> Semi-flexible Non-perforated 	150°C - 302°F

MECHANICAL DATA

Heat conductor thickness	μm	100-150
Density	g/m^3	1.37
Max. Tensile Strength	Mpa	20
Elongation at break	%	2.8
Modulus of Tension	Gpa	7



Dimensional Properties

Total Width	mm	1050	700	525	350	210
	inch.	41.3	27.6	20.7	13.8	8.3
Heating Width	mm	1,000	650	475	300	160
	inch.	39.4	25.6	18.7	11.8	6.3
Max. Length	m	500	500	500	500	500
	Ft.	1640	1640	1640	1640	1640
Weight	g/m^2	250	250	250	250	250
Thickness	μm	240	240	240	240	240

Electrical and physical properties

Resistance	Ω/sq	4.0 - 55.0 +/-7%
Resistance/Lenght	Ω/mt	0.5 - 55.0 +/- 7%
Range of use	Volt	0-48 vDC & 0-230 vAC
Power	W/m^2 W/inch^2	Typical up to 800 W/m^2 Typical up to 0.5 W/inch^2
Weight		250g / m^2 or 9.4 oz / yd^2

- Typical temperature application:-40°C to 80°C / -40°F to 176°F
- Surface insulation (Dielectric strength): 0-5KV * _____
- Cross Bar Copper / Typical Cross section: 20 mm x 0.035 mm
- Open perforated area: 20%

(*Combined with woven glass epoxy 1.5 mm thick)