IP-SM

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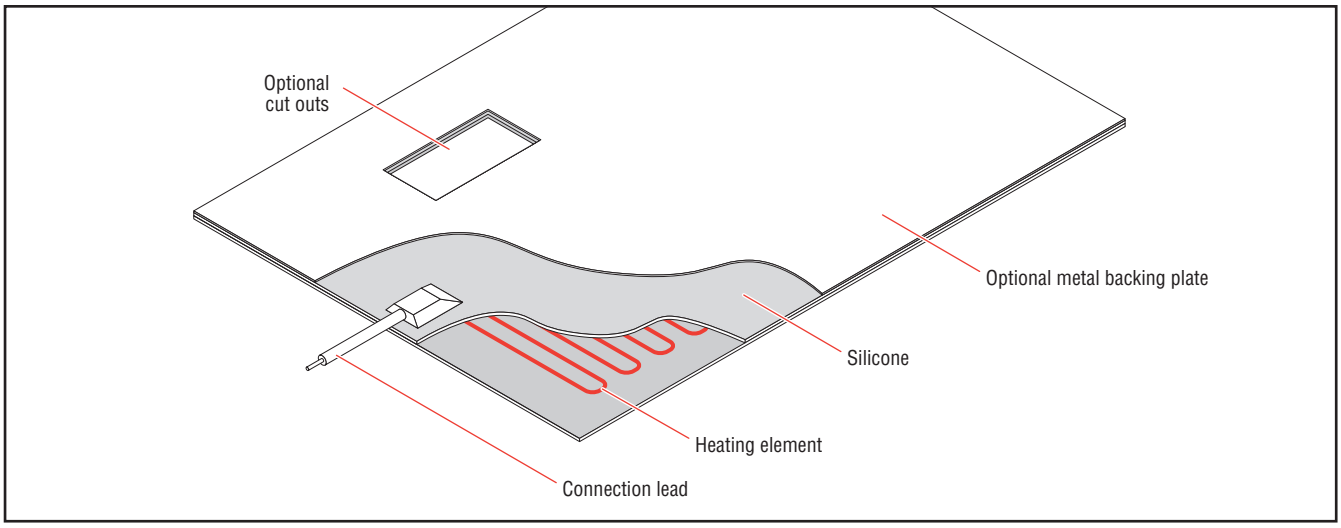
Custom design silicone heating mat

Isopad IP-SM silicone heating mats for industrial use are selected where excellent flexibility and high temperature resistance in thermal processes are needed. The processed silicones have good resistance to ozone, oxygen, weathering, ageing effects, bacterial and fungal attacks. They are also highly resistant to chemicals such as alcohol, acetylene, mineral oil, acids, glucose and glues.

Panels customized to your specification are designed with various options on insulated and metal backings, fixings, cutouts, and controllers. We will advise on the best options for your needs, and as each is different we supply a new technical specification.

To achieve exact surface temperatures, the heating panels are equipped on demand with Isopad or Chromalox controllers and temperature sensors.

We also provide a range of standard sizes; see our IP-DASI datasheet. For more details on custom or standard versions, contact your local sales representative.



Area Specifications	
Area classification	Nonhazardous, ordinary area
Ingress protection	IP65 / IP68 (Only with connection head)
Electrical protection class	Class II (see note)
Storage temperature	–20 to +40°C
Minimum installation temperature	–45°C

Note: Electrical protection class I with metal sheath

Standard Manufacturing Sizes	
Length	2000 mm (other sizes on request)
Tolerances	<400 mm (±2.5) / >400 mm (±4.0) (special sizes excluded)
Width	900 mm (other sizes on request)
Tolerances	<400 mm (±2.5) / >400 mm (±4.0) (special sizes excluded)
Thickness	2.0 to 4.5 mm (other sizes on request)
Tolerances	±0.5 mm (special sizes excluded)

Heater Construction	
Type	Resistance heating cable
Material	Various alloys
Material insulation	Silicone
Carrier	Silicone or silicone-glass-silk mat
Thermal insulation	On request, e.g. silicone foam mats
Outer protection type	On request, e.g. stainless steel or aluminium sheet metal
Fixation and closure type	Diverse methods according to application, e.g. adhesive foil, holes, hooks, eyelets, velcro tape, etc.

General: on request the heating mats can be manufactured with 2-dimensional contours and cut-outs or can be pre-formed for special applications.

Lead Connection

Connection lead length, lead cross section, maximum operating temperature and connection lead material depend on design

Temperature Control	
Sensor type	PT100, Fe-CuNi/J or NiCr-Ni/K according to DIN IEC

Sensor lead length, lead cross section, maximum operating temperature and sensor lead material depend on design

Technical data	
Frequency	50-60 Hz
Maximum operating voltage	480 Vac (~1ph/~3ph)
Nominal power	±10% depending on design
Minimum installation resistance	100 MΩ
Maximum operating temperature	200°C (150°C for versions with adhesive foil)

Minimum bend radius, maximum area load and maximum compression strength depend on design

Ordering Information

Contact your local representative to discuss your requirements.

CONTACT

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Our products satisfy the requirements of the relevant European Directives.

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