



## powermat<sup>®</sup> E NGM

E-glass knitted mat

### PRODUCT CHARACTERISTICS

For **thermal insulation** and **acoustic absorption** for **automotive**, **ships** and **building** as well as for **domestic appliances** and **solar collectors**.

### TECHNICAL CHARACTERISTICS

<b>Material</b>	E-glass fiber	<b>Binder</b>	binder free
<b>Transformation temperature</b> (DIN ISO 7884-8)	640 °C	<b>Sewing material</b>	E-glass silk / cotton
<b>Filament diameter</b> (ISO 1888)	10 µm	<b>Design</b>	sewed an sewed/ laminate with aluminium
<b>Softening temperature</b> (DIN ISO 7884-5)	840 °C	<b>Stitch length</b>	3 – 5 mm
<b>Flammability according IMO FTPC part 1</b>	non combustible	<b>Stitch width</b>	7 mm
<b>Thickness</b>	5-15 mm	<b>Surface weigth</b>	0,5 – 2,6 kg/m <sup>2</sup>

### CHEMICAL COMPOSITION

	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	B <sub>2</sub> O <sub>3</sub>	MgO+CaO	K <sub>2</sub> O+Na <sub>2</sub> O	Rest
Wt. - %	56 – 62	12 – 16	5 – 10	16 - 30	< 2	≤ 2,5

### THERMAL CONDUCTIVITY λ (DIN 52612-2)

	W/m*K	0,032	0,041	0,056	0,076
(density 120 kg/m <sup>3</sup> )	°C	50	100	200	300

### ACOUSTIC ABSORPTION (DIN EN ISO 10534-2)

Frequency kHz	125	250	500	1000	2000	4000
Absorption α	0,03	0,1	0,26	0,55	0,86	0,94

The technical information provided to the current state of the technology and is accurate to the best of our knowledge.

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