



## powermat<sup>®</sup> E

E-glass needle mat

### PRODUCR CHARACTERISTICS

For **thermal insulation** and **acoustics absorption** in the area of the **automotive** and **shipbuilding** as well as **compensators** and **building construction**.

### TECHNICAL CHARACTERISTICS

<b>Material</b>	textile glass fiber E-glass	<b>Volumen shrinkage</b> (600 °C, 2 h)	≤ 0,0 – 0,1 % *
<b>Transformation temperature</b> (DIN ISO 7884-8)	640 °C	<b>Binder</b>	Binder free
<b>Filament diameter</b> (ISO 1888)	9 – 13 µm		
<b>Ignition loss</b> (PA 003; based on standard ISO 1887)	≤ 2,0 % *		

### 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
in w/w - %	52 – 56	12 – 16	5 – 8	16 – 30	< 2	≤ 2,5

### THERMAL CONDUCTIVITY $\lambda$

(DIN 52612-2)

	[°C]	100	200	300	400	500	550
density 160 kg/m <sup>3</sup> , thickness 50 mm	[W/mK]	0,056	0,074	0,098	0,129	0,169	0,193

### ACOUSTIC ABSORPTION $\alpha$

(DIN EN ISO 10534-2)

	[Hz]	125	250	500	1000	2000	4000
density 120 kg/m <sup>3</sup> , thickness 50 mm	[%]	> 6	10	26	55	86	94

\* internal DBW test instructions

The technical information does not constitute a quality warranty. The suitability for a specific purpose must be examined. Subject to change without notice.



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