



powermat[®] E

E-glass needle mat

PRODUCT CHARACTERISTICS

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

THERMAL CONDUCTIVITY λ (DIN 52612-2)

density 160 kg/m³ / thickness 50 mm

°C	100	200	300	400	500	550
W/m*K	0,056	0,074	0,098	0,129	0,169	0,193

TECHNICAL CHARACTERISTICS

Material	textile glass fiber E-glass
Application temperature (DIN ISO 7884-8)	640 °C
Filament diameter (ISO 1888)	9 – 13 μ m
Ignition loss (PA 003; following ISO 1887) *	\leq 2,0 % *
Volume shrinkage (testet at 600 °C, for a period of 2 h)	0 % *
Binder	binder free

ACOUSTIC ABSORPTION (DIN EN ISO 10534-2)

Frequency	Hz	125	250	500	1000	2000	4000
By density 120 kg/m ³ , thickness 50 mm)	α	> 0,06	0,1	0,26	0,55	0,86	0,94

CHEMICAL COMPOSITION

	SiO ₂	Al ₂ O ₃	B ₂ O ₃	MgO+CaO	K ₂ O+Na ₂ O	Rest
Wt. - %	52 – 56	12 – 16	5 – 10	16 - 30	< 2	\leq 2,5

* DBW testing specifications

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

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