

## Kaisound Technical Data

<b>Material</b>		Impregnated polyurethane foam	
<b>Cell structure</b>		Open cell	
<b>Colour</b>		Black	
<b>Upper temperature limit</b>		+110 °C	
<b>Lower temperature limit</b>		-40 °C	See remark (1)
<b>Thermal conductivity</b>	$\lambda_{10}$	Kaisound S: $0,048 + 8,0 \cdot 10^{-5} \vartheta + 7,0 \cdot 10^{-7} \vartheta^2$ Kaisound Splus: $0,058 + 8,0 \cdot 10^{-5} \vartheta + 7,0 \cdot 10^{-7} \vartheta^2$	
	at -10 °C	Kaisound S: $\leq 0,047$ W/(m·K) Kaisound Splus: $\leq 0,057$ W/(m·K)	
	at 0 °C	Kaisound S: $\leq 0,048$ W/(m·K) Kaisound Splus: $\leq 0,058$ W/(m·K)	
	at +10 °C	Kaisound S: $\leq 0,049$ W/(m·K) Kaisound Splus: $\leq 0,059$ W/(m·K)	
<b>Euroclass <sup>o</sup></b>		E Class 0	Test acc. to DIN EN 13501-1 In acc. to UK building regulations
<b>Surface spread of flame</b>		Class 1	Test acc. to BS 476 Part 7 1997
<b>Fire propagation</b>	Total index of performance	<12	Test acc. to BS 476 Part 6 1998
	Sub Index	<6	
<b>Density</b>	Kaisound S	94 kg/m <sup>3</sup> ( $\pm 10$ kg/m <sup>3</sup> )	
	Kaisound Splus	140 kg/m <sup>3</sup> ( $\pm 10$ kg/m <sup>3</sup> )	
<b>Acoustic performance</b>		See table „sound absorption“	Test acc. to EN ISO 354 EN ISO 11654
<b>Tensile strength</b>		$\geq 70$ kpa	
<b>Elongation at break</b>	Kaisound S	$\geq 90$ %	
	Kaisound Splus	$\geq 150$ %	
<b>Compression set/deformation</b>	at 75 %	<15 %	
<b>Health aspects</b>		Fibre free	
<b>Shelf life</b>	Self-adhesive products	1 year	Store in a dry room at a typical relative humidity (between 50 % and 70 %) and room temperature (between 0 °C and +35 °C)
<b>Outdoor applications</b>		Needs protection against UV-radiation and for weatherproofing	See remark (2)

Remark (1) For temperatures below -40 °C please contact our Technical Support Team for advice.

Remark (2) To protect against UV-induced deterioration Kaisound should be covered with a suitable UV resistant cladding system immediately after installation outdoors.

<sup>o</sup> The Euroclass rating applies to metallic or solid mineral substrates.