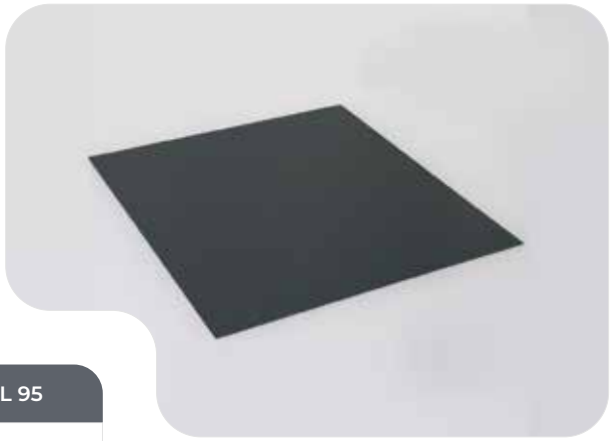
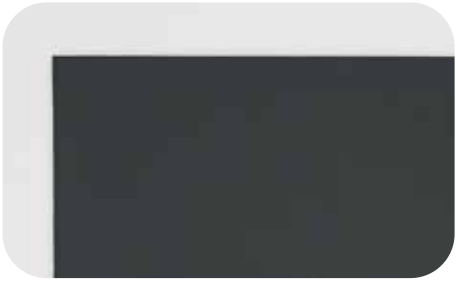
KL 95

KERATHERM® thermally conductive adhesive film



Benefits

- High thermal conductivity
- High adhesive strength
- Good adhesion to various surfaces
- low thickness



Properties		Unit	KL 95
Colour			grey
Basic material			Filled Acrylic Polymer
Thermal Properties*			
Thermal conductivity λ**		W/mK	1.3
Thermal resistance R_{th}		K/W	0.32
Electrical Properties*			
Dielectric breakdown voltage $U_{d;AC}$		kV/mm	2.0
Volume resistivity		Ωm	2.0×10^{11}
Dielectric loss factor tan δ			2.4×10^{-1}
Dielectric constant ε_r			1.7
Mechanical Properties			
Hardness		Shore A	60
Tensile shear strength*		N/cm²	> 6.5
Tensile shear strength* (Temperature aging)	1h/65°C 24h/65°C 72h/65°C	N/cm²	26.90 34.30 48.80
Physical Properties			
Adhesion*** (bonding strength)		Nmm	> 0.5
Tack*** (surface Adhesiveness)		mm	> 1.0
Density		g/cm³	2.24
Application temperature***		°C	-40 to +100
Flame rating		UL-94	V - 0
Possible thickness		mm	0.18 - 0.3

* Measured @ thickness 0.18 mm
** Tensile shear strength Alu/Foil/Alu – 25x25 mm²(outsourcing – 48h/RT);
*** used measurement – Texture Analyser (TA.XT-plus)

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