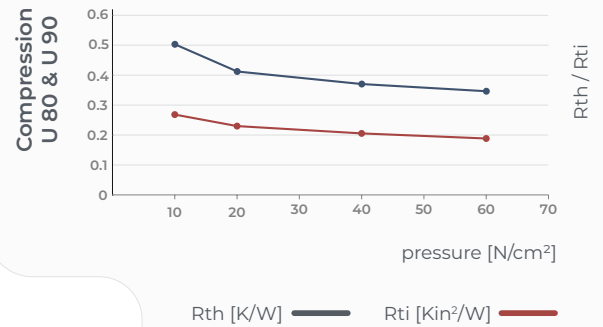


# U 80 & U 90 KERATHERM<sup>®</sup> silicone free Thermal Tape

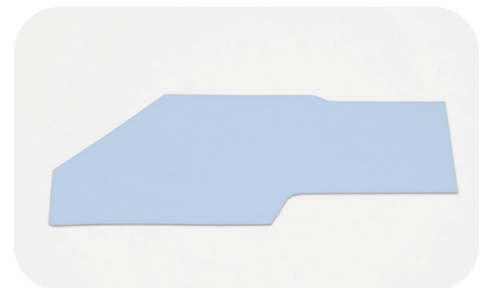
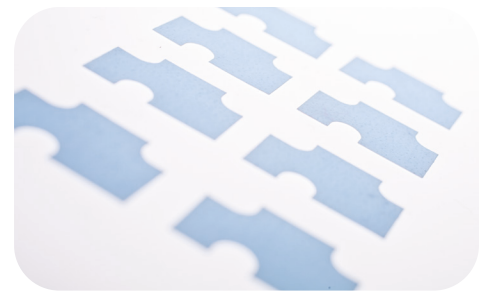
## Benefits

- Silicone free (polyurethane)
- Very high thermal performance
- Good ratio between thermal performance and electrical isolation
- Softening effect for an additional increase in heat output
- Non sticky, available with adhesive coating



Properties	Unit	U 80	U 90
Colour		blue	light blue
<b>Thermal Properties*</b>			
Thermal resistance $R_{th}$	K/W	0.2*	0.082**
Thermal impedance $R_{ti}$	$^{\circ}\text{Cmm}^2/\text{W}$	73*	33**
	$\text{Kin}^2/\text{W}$	0.11*	0.05**
Thermal conductivity $\lambda$	W/mK	1.8*	6.0**
<b>Electrical Properties**</b>			
Dielectric breakdown voltage $U_{di,AC}$	kV	4.0*	4.0**
Volume resistivity	$\Omega\text{m}$	$1.4 \times 10^{14}$ *	$2.0 \times 10^{-11}$ **
Dielectric loss factor $\tan \delta$		$1.3 \times 10^{-2}$ *	$1.4 \times 10^{-2}$ **
Dielectric constant $\epsilon_r$		3.2*	3.1**
<b>Mechanical Properties</b>			
Hardness	Shore A	80 - 90	70 - 85
Tensile strength	N/mm <sup>2</sup>	3.0	2.0
Elongation	%	130	150
<b>Physical Properties</b>			
Application temperature	$^{\circ}\text{C}$	-40 to +125	-40 to +125
Density	g/cm <sup>3</sup>	2.26	1.46
Flame rating	UL-94	V-0	V-0
Possible thickness	mm	0.15-0.3	0.1-0.3

\* Measured @ thickness 0.15mm \*\* Measured @ thickness 0.2mm



- ✓ Optional available with adhesive coating **U 80K / U 90K**