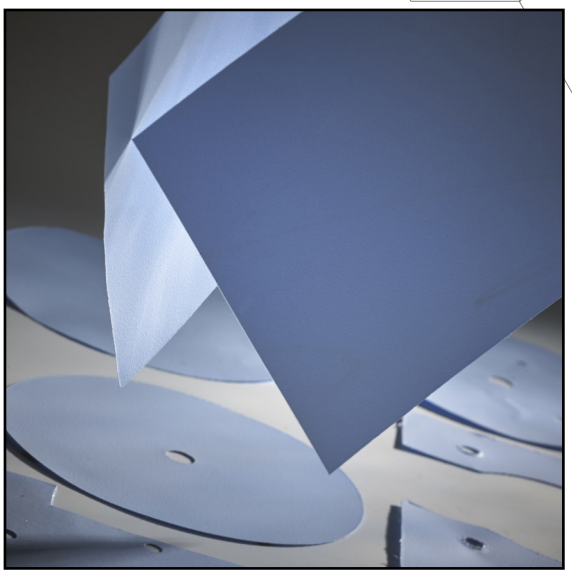
THAI TECHNOLOGIES

N65

Electrical Insulating, Thermal Material



N65 is a non-silicone electrical isolating thermal interface material that delivers an exceptionally high level of thermal conductivity of 6.5W/mK. N65 is highly suited for rugged and extremely demanding applications as well as silicone sensitive applications. Its inherent softness removes micro air voids between contact surfaces at the interface. The cold-flow action of N65 mounted to a cold wall or chassis, via a spring, metal clip or clip, delivers reliable and high thermal performance whilst also guaranteeing electrical isolation

Properties	Unit	N65
Base material	-	Ceramic-filled polyurethane
Tested thickness	mm	0.2
Color		Light blue
Thermal Properties		
Thermal resistance R_{th}	K/W	0.082
Thermal impedance R_{ti}	°Cmm^2/W (Kin^2/W)	32.9 (0.05)
Thermal conductivity λ	W/mK	6.5
Electrical Properties		
Breakdown voltage $U_{d;ac}$	KV	4

Order example:

N65-20-A0

N = Electric insulating film - 65 = 6.5W/mK - 20 = 0.20mm - A0 = No adhesive on one side

A0 = without adhesive / A1 = with adhesive on one side

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Properties	Unit	N65
Base material	-	Ceramic-filled polyurethane
Standard thickness	mm	0.2
Color	-	Light blue
Thermal Properties		
Thermal resistance R_{th}	K/W	0.082
Thermal impedance R_{ti}	°Cmm^2/W (Kin^2/W)	32.9 (0.05)
Thermal conductivity λ	W/mK	6.5
Electrical Properties		
Breakdown voltage $U_{d;ac}$	KV	4
Dielectric breakdown $E_{d;ac}$	KV/mm	25
Volume resistivity	Ωm	2.0 x 10^{11}
Dielectric loss factor tan δ	1	13.7 x 10^{-3}
Dielectric constant ε_r	1	3.1
Mechanical Properties		
Tensile strength	N/mm^2	2.0
Hardness	Shore A	70 - 85
Elongation	%	150
Physical Properties		
Possible thicknesses	mm	0.1 - 0.3
Flame rating	UL94	V0
Comparative Tracking Index (3.00 mm)	600V	
Density	g/cm^3	1.46
Application temperature	°C	-40 to +125