HIGH THERMAL CONDUCTIVITY

N25

N25 is a highly thermal conductive white film. It has an well-balanced thermal, electrical and dielectric behavior and a good tacky characteristic. N25 is constructed by filling a silicone elastomer base with aluminum oxide.

An increase in mechanical strength can be achieved through optional fibre glass reinforcement. N25 can optionally be supplied with an additional adhesive coating.

Properties	Unit	N25	Test Method
Color	-	White	Visual
Thermal Properties			
Thermal resistance R_{th}	K/W	0.22	-
Thermal impedance R_{ti}	°Cmm^2/W	90	ASTM D5740
Thermal conductivity λ	W/mK	2.5	ASTM D5470
Electrical Properties			
Breakdown voltage $U_{d;ac}$	kV	1.5	ASTM D149
Dielectric breakdown $E_{d;ac}$	kV/mm	7.0	-
Volume resistivity	Ωm	2.5 x 10^{11}	-
Dielectric loss factor tan δ		2.2 x 10^{-2}	
Dielectric constant ε_r		3.0	ASTM D150
Mechanical Properties			
Tensile strength	N/mm^2	1.5	ASTM D412
Hardness	Shore A	70-80	ASTM D2240
Elongation	%	31	ASTM D412
Physical Properties			
Standard thicknesses	mm	0.25	-
Flame rating	UL-94	V-0	-
Density	g/cm^3	2.33	-
Application temperature	°C	-60 up to +250	-

Ordering example:

N25-A1-FG

06/19

A1= with adhesive on one side, FG= with fibre glass

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