

THERMAL CONDUCTIVE FABRIC

N15



N15 is a highly durable pad formulated to thermally connect hot electronic devices to a cold wall or nearby metal work whilst also maintaining guaranteed electrical insulation.

The cold flow action of N15 and its soft surfaces on both sides, delivers good thermal wet out between mating surfaces, the removal of micro air voids to reduced thermal resistance and improved thermal performance.

N15 can be supplied in die-cut shapes for use in a wide range of electronic applications.

Properties	Unit	N15	Test Method
Tested thickness	mm	0.25	-
Color	-	Yellow-Orange	Visual
Thermal Properties			
Thermal resistance R_{th}	K/W	-	-
Thermal impedance R_{ti}	Kcm ² /W @ 69KPa	2.90	ASTM D5740
Thermal conductivity λ	W/mK	1.5	ASTM D5470
Application temperature	°C	-40 up to +200	-
Electrical Properties			
Breakdown voltage $U_{d,ac}$	KV	6	ASTM D149
Dielectric breakdown $E_{d,ac}$	KV/mm		-
Volume resistivity	Ω m	10^{11}	-
Dielectric constant ϵ_r	1	4.0	ASTM D150
Mechanical Properties			
Tensile strength	N/mm ²	20	ASTM D412
Hardness	Shore A	70	ASTM D2240
Elongation	%	10	ASTM D412
Outgassing	CVCM (%)	0.04	ASTM E595
Physical Properties			
Standard thicknesses	mm	0.25	-
Flame rating	UL94	V0	-
Density	g/cm ³	1.8	-
Application temperature	°C	-40 up to +200	-

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Order example:

N15-25-A0

N = Electric insulating film - 15 = 1.5W/mK - 25 = 0.25mm - A0 = No adhesive on one side