



(8805, 8810, 8815, 8820) 3M™ Thermally Conductive Adhesive Transfer Tapes

3M™ Thermally Conductive Adhesive Transfer Tapes 8805, 8810, 8815 and 8820 are designed to provide a preferential heat-transfer path between heat-generating components and heat sinks or other cooling devices (e.g., fans, heat spreaders or heat pipes).

TECHNICAL DATA SHEET | (EFFECTIVE 25FEB24)

3M™ Thermally Conductive Adhesive Transfer Tapes

PHYSICAL PROPERTY	TEST METHOD	UNIT	PRODUCT NUMBER			
			8805	8810	8815	8820
Color		-	White	White	White	White
Tape Type		-	Filled Acrylic Polymer	Filled Acrylic Polymer	Filled Acrylic Polymer	Filled Acrylic Polymer
Tape Thickness		mm mils	0.125 5	0.25 10	0.375 15	0.50 20
Filler Type		-	Ceramic	Ceramic	Ceramic	Ceramic
Liner Type		-	Dual liner using silicone-treated polyester. Easy release PET liner is clear in color, tight side PET liner is blue in color.			
Liner Thickness		µm mils	3.75 - 50 1.5 - 2	3.75 - 50 1.5 - 2	3.75 - 50 1.5 - 2	3.75 - 50 1.5 - 2
Thermal Impedance	3M Test Method	°C cm ² /W °C in ² /W	3.2 0.5	5.8 0.9	7.7 1.2	9.7 1.5
Thermal Conductivity	ASTM C-177	w/m-k	0.60	0.60	0.60	0.60
Specific Gravity		g/cc	1.07	1.07	1.07	1.07
Surface Resistivity	ASTM D-2577	Ω-cm	1.6 × 10 ¹¹	1.6 × 10 ¹¹	1.5 × 10 ¹¹	1.5 × 10 ¹¹
Volume Resistivity	ASTM D-2577	Ω-cm	5.2 × 10 ¹¹	3.9 × 10 ¹¹	3.8 × 10 ¹¹	3.8 × 10 ¹¹
Dielectric Strength	ASTM D-149	kv/mm v/mil	26 688	26 688	26 688	26 688

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PHYSICAL PROPERTY	TEST METHOD	UNIT	PRODUCT NUMBER			
			8805	8810	8815	8820
Dielectric Properties	ASTM D-150	mhz	3	100	1000	1000
Dielectric Constant	ASTM D-150	-	93.5	3.2	3.0	3.0
Static Shear	3M Test Method SS & PET	-	PASS	PASS	PASS	PASS
Heat Aging and Environmental Cycling Performance	UL-746C	-	Products pass UL-746C Heat Aging testing* and Cycling Performance Environmental Cycling testing. Contact your TBD UL-746C 3M technical services representative for details.			TBD
90° Peel Test PROPERTY	TEST METHOD	UNIT	PRODUCT NUMBER			
			8805	8810	8815	8820
Room Temp Dwell @ 15 mins	3M test method 1 mil PET Backing	g/mm oz/in	990 35	1300 46	1500 53	1700 60
65°C Dwell @ 15 mins	3M test method 1 mil PET Backing	gg/mm oz/in	1450 51	2040 72	2440 86	2780 98
Room Temp Dwell @ 72 hrs	3M test method 1 mil PET Backing	gg/mm oz/in	1500 53	2130 75	2520 89	3060 108
65°C Dwell @ 72 hrs	3M test method 1 mil PET Backing	gg/mm oz/in	1590 56	2500 88	4000 141	4130 181