Polyimide Materials

Polyimide labels are widely used for permanently marking electronics that experience extreme temperature exposures during the manufacturing process. Brady polyimide materials have been designed to survive solder reflow, harsh aqueous chemical cleaning and device testing by leveraging the enhanced stiffness, chemical resistance, large intrinsic dielectric strength and extremely high heat tolerance of high performance polyimide films. These labels are naturally flame retardant and are offered with matte or gloss topcoats and in low-profile and static-dissipative configurations.

Printer Compatibility

The following pages contain 3” core label rolls that are designed for use in these printers unless otherwise noted.

NEW BradyPrinter i5100 and legacy IP™ Printer

NEW BradyPrinter i7100 and legacy PR PLUS printer

How to Read a THT Catalog Number

Many Brady label parts follow a naming convention that includes specific information about the label. The following example shows how it can be broken down:

THT – 59 – 717 – 10

Technology:	Die Size:	Material:	Quantity:
Thermal Transfer	#5 die 1” x 0.5”	B-717 Polyimide	Multiply by 1,000 10 x 1,000 = 10,000

Material	Print Technology	Color	Finish	Adhesive	Thickness	UL	CSA	RoHS	Applications
B-717	Thermal Transfer	White	Gloss	Permanent	4.2 mils	X		X	PCB identification; high temperature material with electrostatic dissipative (ESD) adhesive and liner.
B-718	Thermal Transfer	White	Gloss	Permanent	3.3 mils	X		X	PCB identification; high temperature material with electrostatic dissipative (ESD) adhesive and liner; reduced profile for processes that demand thin or lighter weight material; high temperature wire marking applications.
B-719	Thermal Transfer	White	Matte	Permanent	3.3 mils	X		X	PCB identification; matte topcoat designed to prevent solder ball sticking after molten wave soldering. Reduced profile for processes that demand thin or lighter weight material; high temperature wire marking applications.
B-724	Thermal Transfer	Amber	Matte	Permanent	4.4mils			X	Printed circuit board and electronic component preprocess labeling.
B-727	Thermal Transfer	White	Gloss	Permanent	4.4 mils	X		X	PCB identification; withstands wavesolder process.
B-728	Thermal Transfer	White	Matte	Permanent	4.4 mils	X		X	PCB identification; matte topcoat designed to prevent solder ball sticking after molten wave soldering.
B-729	Thermal Transfer	White	Matte	Permanent	3.4 mils	X		X	PCB identification; matte topcoat designed to prevent solder ball sticking after molten wave soldering. Reduced profile for processes that demand thin or lighter weight material; high temperature wire marking applications.
B-776	Thermal Transfer	Light Green	Gloss	Permanent	4.4 mils	X		X	Printed circuit board and electronic component preprocess labeling.

B-717 Electrostatic Dissipative Polyimide Material

Color: White **Finish: Gloss**

High temperature white polyimide material (2 mil) with glossy finish. Features a permanent static dissipative adhesive and a static dissipative release liner. Withstands wave solder environments for printed circuit board and electronic component preprocess labeling. Surface resistivity values in the recommended range for dissipative ESD packaging materials. Also meets requirements of EIA-541 “Packaging Material Standards for ESD Sensitive Items.”

Performance Attributes:

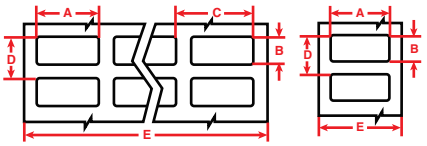

Figure 1 *Figure 2*

Diagram	Catalog #	Material	Color	Label Width A Inch (mm)	Label Height B Inch (mm)	Horiz. Repeat C Inch (mm)	Vert. Repeat D Inch (mm)	Web Width E Inch (mm)	Labels Per Row	Labels Per Pkg	Rec. Ribbon
Fig. 1	* THT-70-717-20	Polyimide	White	0.250 (6.4)	0.250 (6.4)	0.320 (8.1)	0.350 (8.9)	2.370 (60.2)	7	20,000	R6000
Fig. 1	* THT-38-717-10	Polyimide	White	0.375 (9.5)	0.375 (9.5)	0.437 (11.1)	0.475 (12.1)	3.200 (81.3)	7	10,000	R6002
Fig. 1	* THT-12-717-10	Polyimide	White	0.500 (12.7)	0.437 (11.1)	0.662 (16.8)	0.537 (13.6)	3.350 (85.1)	5	10,000	R6007
Fig. 1	* THT-96-717-10	Polyimide	White	0.500 (12.7)	0.275 (7.0)	0.600 (15.2)	0.375 (9.5)	2.500 (63.5)	4	10,000	R6002
Fig. 2	* THT-97-717-10	Polyimide	White	0.500 (12.7)	0.200 (5.1)	-	0.300 (7.6)	0.700 (17.8)	1	10,000	R6011
Fig. 2	* THT-99-717-10	Polyimide	White	0.500 (12.7)	0.500 (12.7)	-	0.600 (15.2)	0.700 (17.8)	1	10,000	R6011
Fig. 1	* THT-14-717-10	Polyimide	White	0.650 (16.5)	0.200 (5.1)	0.700 (17.8)	0.300 (7.6)	2.950 (74.9)	4	10,000	R6002
Fig. 2	* THT-47-717-10	Polyimide	White	0.650 (16.5)	0.200 (5.1)	-	0.300 (7.6)	0.850 (21.6)	1	10,000	R6011
Fig. 1	* THT-1-717-10	Polyimide	White	0.750 (19.1)	0.250 (6.4)	0.800 (20.3)	0.350 (8.9)	3.350 (85.1)	4	10,000	R6007
Fig. 2	* THT-46-717-10	Polyimide	White	0.750 (19.1)	0.250 (6.4)	-	0.350 (8.9)	0.950 (24.1)	1	10,000	R6006
Fig. 2	* THT-103-717-10	Polyimide	White	1.000 (25.4)	0.250 (6.4)	-	0.350 (8.9)	1.200 (30.5)	1	10,000	R6006
Fig. 2	* THT-42-717-10	Polyimide	White	1.000 (25.4)	0.187 (4.8)	-	0.287 (6.9)	1.200 (30.5)	1	10,000	R6006
Fig. 2	* THT-59-717-10	Polyimide	White	1.000 (25.4)	0.500 (12.7)	-	0.600 (15.2)	1.200 (30.5)	1	10,000	R6006
Fig. 2	* THT-43-717-10	Polyimide	White	1.250 (31.8)	0.250 (6.4)	-	0.350 (8.9)	1.450 (36.8)	1	10,000	R6006
Fig. 2	* THT-44-717-10	Polyimide	White	1.375 (34.9)	0.250 (6.4)	-	0.350 (8.9)	1.600 (40.6)	1	10,000	R6000
Fig. 2	* THT-45-717-10	Polyimide	White	1.500 (38.1)	0.250 (6.4)	-	0.350 (8.9)	1.700 (43.2)	1	10,000	R6000
Fig. 2	* THT-60-717-10	Polyimide	White	1.500 (38.1)	0.125 (3.2)	-	0.225 (5.7)	1.700 (43.2)	1	10,000	R6000
Fig. 2	* THT-15-717-2.5	Polyimide	White	2.000 (50.8)	0.250 (6.4)	-	0.375 (9.5)	2.200 (55.9)	1	2,500	R6000
Fig. 2	* THT-48-717-10	Polyimide	White	2.000 (50.8)	0.250 (6.4)	-	0.350 (8.9)	2.200 (55.9)	1	10,000	R6000

* ⚠ **WARNING:** Cancer www.P65Warnings.ca.gov

Did You Know?

Brady teamed up with ZESTRON, Kyzen and market leaders in high precision cleaning process solutions, to conduct extensive chemical compatibility testing on the Brady line of polyimide labels, which are commonly used as printed circuit board (PCB) identification labels.

According to the test results, all Brady polyimide labels submitted can successfully withstand ZESTRON and Kyzen’s latest cleaning chemicals – these test results are critically important to circuit board manufacturers, as they ensure that Brady polyimide labels will stay adhered and legible throughout the whole circuit board production process including in-line aqueous cleaning systems.

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