BRADY B-457 GLOSSY WHITE THERMAL TRANSFER PRINTABLE POLYIMIDE LABEL STOCK

TDS No. B-457
Effective Date: 07-Jul-2010

Description:

GENERAL
Print Technology: Thermal Transfer
Material Type: Polyimide
Finish: Glossy
Adhesive: Permanent Acrylic

APPLICATIONS

RECOMMENDED RIBBONS
Brady Series R 000
Brady Series R 000 Formulation

REGULATORY/AGENCY APPROVALS

SPECIAL FEATURES

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000	
	-Substrate	0.00 7 inch (0.0 8)
	-Adhesive	0.0017 inch (0.04)
	-Total	0.0044 inch (0.111)
Adhesion to:	ASTM D 1000	
-Stainless Steel	0 minutes	8 oz/in (4 /100)
	4 hours	50 oz/in (55 /100)
-Epoxy PC Board	0 minutes	o in (/100)
	4 hours	o in (/100)
Tack	ASTM D 07	
	Polyken™ Probe Tack	7 o (10 0)
	1 second	
Drop Shear	PSTC-7 (except using 1 " x 1"	>100 hour
	)	
Dielectric Strength	ASTM D 1000	500 volts

Per... ...o... 457 ...na...ati...n... an a o... ...4 our ...o... x...o u...
...n ca... ...nvi...on... na con...on.

457... no...c...n... ...o ou...oo... u...

PERFORMANCE PROPERTY	CHEMICAL RESISTANCE

S... ...n... ...S... R 000 an S... R 000 F. La... ...n... ...
:1 ...a...o... a...co... ...X... ...n on... a... . S... ...x...o... ...on ca...
...nv...on... ...n...

PERFORMANCE PROPERTIES	TEST METHODS	TYPICAL RESULTS
S...o...T...9 S...v c...T... ...a...u...	80... ...con... a...57 F ...00 °C)	No v... ...c...o... a... a...57 F (...00 °C), a... ...coo... ...9 ...y a... F (...0 °C), u... unc...ona, a... F (...50 °C) a... ... unc...ona u... o... ...a...y ...coo... an a... ...v... ...coo... an a... ...9 ...n... ...0... .
	5... nu... a...500 F (... 0 °C)	No v... ...c...o... a... a... 0 °C, a... ...coo... ...9 ...y a... 70 °C, a...00 °C a... ...o... ...a...y ...coo... an a... ...v... coo... a...a... ...9 . La... an unc...ona .
	...our... a... ...8 F (170 °C)	No v... ...c...o... a...170 °C, a... ...coo... ...9 ...y a...100 °C, ...o... ...a...y a... 0 °C an ...v... y a... 0 °C. La... an unc...ona .
Lon... T...9 S...v c...T... ...a...u...	1000... our... a... 1 F (100 °C)	No v... ...c...o... a... a...100 °C, a... ...coo... ...9 ...y a...1 0 °C, ...o... ...a...y a...145 °C. La... ...an unc...ona .
Lo... S...v c...T... ...a...u...	1000... our... a...04 F (-70 °C)	No v... ...c...
...t... ...y R...anc...	1000... our... a...100 F (...7 °C), ...5 R. U...	No v... ...c...
...9... ...R...anc...	1000... our... n... ...Sun...™ 100	To...coa...un... ...9 ...y o... a... ...an unc...ona
...a...a... ...y	AST... G155, Cyc... 1 1000... our... n X...non A...c ...a...a......	R 000 - S...9... co o...a...on
Sa...E...9 R...anc...	AST... ...117 ...0... ...ay n5... a... ...9... ou...on ...a...	No v... ...c...
A...a...on R...anc...	...a... A...a...r, CS-10...9 ...n H ... , 500... a... F . S... 1...1A, ...o... 5 0)	P...n...... o 100 cyc... .
...a...o... ...R...anc...	La... a... ...o... oxy PC... oa... an...x...o... ...o: ... nu... nF uo...n...™ F C-5 1 va...o... a...a...4 0 F (...1 °C)	No v... ...c...ou..., ...o... ...a...o...a... ...n... ...a... ......

PERFORMANCE PROPERTY	CHEMICAL RESISTANCE

S... ...n... ...S... R 000 an S... R 000 F... a...an ...on. La... ...n...u...
a...:1... a...co... ...a...o... a 5... nan...o... X... ...n on... a... . S... ...9... na... ...F R-4... oa... an a o...
...o... ...o... 4... our... a...00... ...a...u... ...o...... . S... ...u... 10... ...a...co...on...
...n... ...u... a... 10... nu... ...on.

	SUBJECTIVE OBSERVATION OF VISUAL CHANGE

CHEMICAL REAGENT	EFFECT TO LABEL	R6000		R6000HF	
		WITHOUT RUB	WITH RUB	WITHOUT RUB	WITH RUB
...y ...n Cor... Aquanox SSA™ ... aqueous, 40-45℃ - 10 minutes	No visible effect	1	1	1	1
...Alco o..., 8 ℃ - 10 minutes	No visible effect	1	1-	1	1-4
...ACT... C-7R™T... Cleaner, 40-45℃ - 10 minutes	No visible effect	1		1	1-
D...on ...water, 100℃ - 10 minutes	No visible effect	1	1	1	1
A...a...a nc. 110 Saponi... aqueous, ...5-70℃ - 10 minutes	No visible effect	1		1	-

Rating Scale:
1 = no visible effect
...
4 = ...
5 = complete...

PERFORMANCE PROPERTY	TEST METHOD
Chemical Resistance	L-STD-...0 F, ...c 1, ...o 15

Sa...ples ...ne... S...r R 000 an S...r R 000 F ...ion. La...ne... ...a... and ...c an ...:1 ra...o alco... ...X ...n...on...ar Sa... ...u...c... ... cyc...o...nu... ...on ...a...y...o...ya...o...u... ...a...ac...on.

TEST FLUID	TYPICAL RESULTS
Solvent A 1...ar IPA, ...ar ...n...a S...r...	No visible effect
Solvent B 1,1,1-T...c...oro...an...	Solvent ...e... ...o...c 1
Solvent C T...r...n... D...ux...	No visible effect
Solvent D Sa...on ...r	No visible effect

Pro...uc...s ...g...,cu...s...ac...an...s...ory o...ar...o...uc...s...u...or...a...cu...s...a...r...o...anc... ...x...ca...on o...a...a *two years from the date of receipt* o...s...ro...uc...a...on a...s...ro...uc... ...or...n...o...na...ac...s...n an...nv...on...n.*below 80 degrees F (27℃) and 60% RH*. ...a... con...n...a...ou...ro...uc...s...e...s...e...yon...s...an...o...ro...uc...an s...on...s...o...u...o...a...s...o...u...r...uc...ro...uc...s...ncoura...cu...s...o...v...o... ...unc...ona...e...s...rooco...s...s...ua...y a...ro...uc...s...ro...u...,n...r...ac...a...ca...on.

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ASTM: American Society for Testing and Materials (U.S.A.)
PSTC: Pressure Sensitive Tape Council (U.S.A.)
UL: Underwriters Laboratories Inc. (U.S.A.)
All S.I. Units (metric) are mathematically derived from the U.S. Conventional
Units.

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Specification Of Thermal Transfer Printable Labels

Application(s):	Circuit Board & Component ID, SMT - Top/Bottom, Through Hole - Bottom, Through Hole - Top
Agency Approval(s)/Compliance:	UL Recognized
Size:	0.900" W x 0.250" H (22.860 mm W x 6.350 mm H)
Printable Area:	0.900" W x 0.250" H (22.860 mm W x 6.350 mm H)
Web Width:	3.350" (85.09 mm)
Label Type/Style:	Label
Vertical Repeat:	0.350" (8.89 mm)
Horizontal Repeat:	1.125" (28.58 mm)
Color:	White
Finish:	Gloss
Qty Per Row:	3
Material Type:	Polyimide
Material Description:	High Temperature Polyimide
Brady Material #:	B-457
General ID Catalog:	pg. 24
Recommended Ribbon Series:	6000
Suggested Ribbon Part#:	R6002
After Process:	Yes, this material will work with this application
Printer Compatibility:	BBP81, Brady 1244, Brady 1344, Brady 200MVP Plus, Brady 2461, Brady 300MVP Plus, Brady 300X-Plus II, Brady 3481, Brady 360X-Plus II, Brady 600X-Plus II, Brady 6441, Brady IP, Tagus T200, Tagus T300, Thermal Transfer Printers
Surface Mount Technology:	Yes, this material will work with this application
Through Hole Technology:	Top: Yes, Bottom: Yes
Special Properties:	Good contrast and smear resistance
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QTY/UOM:	10,000/Roll