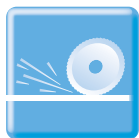


Material Brands & Attributes Guide

BradyID.com

Product Performance Icons

Brady's implementation of a series of attribute icons provides customers with at-a-glance information on performance attributes for each of the label materials. Watch for these icons to help you easily identify product performance features that fit your needs.



Abrasion Resistance

- Resistance proven with testing on Taber Abraser equipment with CS10 grinding wheels and weighted arms. Print is still legible after 100 cycles.



Ultra-Aggressive Adhesion

- Measures the force required to remove tape from the surface with a 180° peel and a constant rate of 12 inch/min. Meets an adhesion rate of at least 155 oz/in.



Solvent/Chemical Resistance

- Resistance proven with MEK / Acetone / Toluene / Xylene Immersion Test
- 5 cycles of 10 min immersions followed by rub test with cotton swab. No visible effect or print removal.



Outdoor Durability

- Favorable UV & weatherability testing equating to 3 years or greater outdoor durability.



Fuel/Oil Resistance

- Resistance proven with Immersion Test in Gasoline, Break Fluid, SAE 30wt Oil, JP-8 Jet Fuel, MIL-H- 5606 Oil.
- 5 cycles of 10 minute immersions followed by rub test with cotton swab. No visible effect or slight print removal.



Removable

- Indicates material can be removed cleanly with no adhesive residue left on surface.



High Heat Resistance

- Resistance to 212°F (100°C). Labels subjected to a range of temperatures for 30 days or 1000 hours. No visible effect or label still functional.



Tamper-Indicating

- Materials indicate tampering through a visible fractured label or footprint.



Low Temperature Resistance

- Labels subjected to -40°C, -70°C or -80°C for 30 days or 1000 hours. No visible effect or label still functional.



Electrostatic Dissipative

- Material has surface resistivity values in the recommended range for Dissipative ESD Packaging Materials.



Self-Extinguishing Anti-Flammability

- Flammability average burn time = <30 seconds Flame spread index of 0



Water-Indicating

- Indicates presence of liquid



View The Technical Data Sheets

Brady offers online access to Technical Data Sheets for all Brady materials. View by a specific B-Number or search by relevant keywords.

Visit [BradyID.com/techdata](https://bradyid.com/techdata) for more information.



General ID Materials

BradyID.com



General Identification Materials

Brady's industrial materials are designed and produced to meet the exacting needs and requirements of harsh industrial environments. They are made of durable, heavy-duty material and aggressive adhesive that's proven to stick to almost any industrial environment surface, including machinery, floors, walls, racks and more.

Brady's industrial materials are made to stick and stay stuck - so you can create facility and safety identification once, knowing it will still be there years down the line.

! Understanding THT Label Part Numbers

Example:

THT-5-423-10

Technology:
Thermal Transfer

Die Cut:
#5, 1.000" x 0.500"

Quantity:
Multiply by 1,000
10 x 1,000 = 10,000

Material Number:
B-423, Gloss White Polyester

Printer Compatibility

All general identification parts shown on the following pages are compatible with the following printers unless otherwise noted.



Bradyprinter™ PR Plus Printers

See Page 130



Brady IP™ Printer

See Page 137



BBP®12 Label Printer

3" Core Label Rolls are compatible when used with Media Holder accessory.



B-103 Overlaminating Material

Color: Clear Finish: Matte

Clear polyester over laminating tape recommended for use with most Brady materials. Place tape on top of printed materials to protect against dirt, chemicals and abrasion.

Performance Attributes:

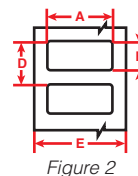


Figure 2



Diagram	Catalog #	Material	Color	Label Width A Inch (mm)	Label Height B Inch (mm)	Vert. Repeat D Inch (mm)	Web Width E Inch (mm)	Labels Per Row	Labels Per Pkg	Rec. Ribbon
Fig. 2	LAM-1-103	Polyester	Clear	0.650 (16.5)	0.200 (5.1)	0.262 (6.7)	0.850 (21.6)	1	5,000	N/A
Fig. 2	LAM-2-103	Polyester	Clear	1.000 (25.4)	0.250 (6.3)	0.312 (7.9)	1.200 (30.5)	1	5,000	N/A
Fig. 2	LAM-5-103	Polyester	Clear	1.000 (25.4)	0.500 (12.0)	0.562 (14.2)	1.200 (30.5)	1	2,000	N/A
Fig. 2	LAM-3-103	Polyester	Clear	1.500 (38.1)	0.250 (6.3)	0.262 (6.7)	1.700 (43.18)	1	5,000	N/A
Fig. 2	LAM-6-103	Polyester	Clear	1.500 (38.1)	0.750 (19.05)	0.812 (20.6)	1.700 (43.18)	1	2,000	N/A
Fig. 2	LAM-7-103	Polyester	Clear	2.000 (50.8)	1.000 (25.4)	1.062 (27.0)	2.200 (55.88)	1	2,000	N/A

B-402 Paper Material

Color: White Finish: Matte

White paper material for thermal transfer print technology. An economical solution for general purpose labeling needs.

Performance Attributes:

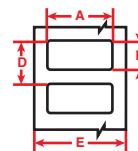


Figure 2



Diagram	Catalog #	Material	Color	Label Width A Inch (mm)	Label Height B Inch (mm)	Vert. Repeat D Inch (mm)	Web Width E Inch (mm)	Labels Per Row	Labels Per Pkg	Rec. Ribbon
Fig. 2	THT-17-402-5.2	Paper	White	2.000 (50.8)	1.000 (25.4)	1.125 (28.6)	2.125 (54.0)	1	5,200	R6100
Fig. 2	THT-18-402-5.2	Paper	White	3.000 (76.2)	1.000 (25.4)	1.125 (28.6)	3.200 (81.3)	1	5,200	R6102
Fig. 2	THT-19-402-3	Paper	White	3.000 (76.2)	2.000 (50.8)	2.125 (54.0)	3.200 (81.3)	1	3,000	R6102
Fig. 2	THT-20-402-1.1	Paper	White	3.000 (76.2)	5.000 (127.0)	5.125 (130.2)	3.200 (81.3)	1	1,100	R6102
Fig. 2	THT-25-402-1	Paper	White	4.000 (101.6)	6.000 (152.4)	6.125 (155.6)	4.200 (106.7)	1	1,000	R6107
Fig. 2	THT-55-402-3	Paper	White	4.000 (101.6)	2.000 (50.8)	2.125 (54.0)	4.200 (106.7)	1	3,000	R6107
Fig. 2	THT-77-402-1.4	Paper	White	4.000 (101.6)	4.000 (101.6)	4.125 (104.8)	4.125 (104.8)	1	1,400	R6107
Fig. 2	THT-78-402-0.9	Paper	White	4.000 (101.6)	6.500 (165.1)	6.625 (168.3)	4.125 (104.8)	1	900	R6107

B-408 Paper Material

Color: White Finish: Matte

General purpose paper material for thermal transfer printing. White with matte finish and removable adhesive. Can be repositioned or removed.

Performance Attributes:

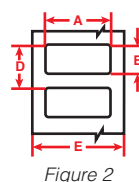


Figure 2



Diagram	Catalog #	Material	Color	Label Width A Inch (mm)	Label Height B Inch (mm)	Vert. Repeat D Inch (mm)	Web Width E Inch (mm)	Labels Per Row	Labels Per Pkg	Rec. Ribbon
Fig. 2	THT-17-408-3	Paper	White	2.000 (50.8)	1.000 (25.4)	1.125 (28.6)	2.200 (55.9)	1	3,000	R6100
Fig. 2	THT-18-408-3	Paper	White	3.000 (76.2)	1.000 (25.4)	1.125 (28.6)	3.200 (81.3)	1	3,000	R6102
Fig. 2	THT-19-408-1	Paper	White	3.000 (76.2)	2.000 (50.8)	2.125 (54.0)	3.200 (81.3)	1	1,000	R6102
Fig. 2	THT-20-408-1	Paper	White	3.000 (76.2)	5.000 (127.0)	5.125 (130.2)	3.200 (81.3)	1	1,000	R6102
Fig. 2	THT-25-408-1	Paper	White	4.000 (101.6)	6.000 (152.4)	6.125 (155.6)	4.200 (106.7)	1	1,000	R6107
Fig. 2	THT-55-408-1	Paper	White	4.000 (101.6)	2.000 (50.8)	2.125 (54.0)	4.200 (106.7)	1	1,000	R6107
Fig. 2	THT-78-408-1	Paper	White	4.000 (101.6)	6.500 (165.1)	6.625 (168.3)	4.200 (106.7)	1	1,000	R6107



B-422 Polyester Material

Color: White Finish: Gloss

White material stock with glossy finish and 2 mils of adhesive for rough surface applications, including low surface energy plastics. Designed to withstand solvent exposure. UL rated for surfaces commonly used in solar panel manufacturing. Also used for component identification, barcoding, and asset and inventory tracking.

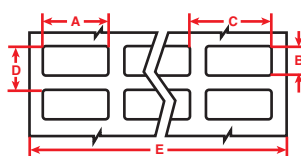


Figure 1

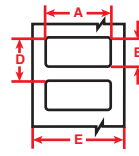


Figure 2



Performance Attributes:



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-148-422-10	Polyester	White	0.500 (12.7)	0.375 (9.5)	0.600 (15.2)	0.475 (12.1)	2.500 (63.5)	4	10,000	R6002
Fig. 1	THT-149-422-10	Polyester	White	0.500 (12.7)	0.500 (12.7)	0.600 (15.2)	0.625 (15.9)	2.500 (63.5)	4	10,000	R6002
Fig. 1	THT-36-422-10	Polyester	White	0.500 (12.7)	0.200 (5.1)	0.625 (15.9)	0.300 (7.6)	3.200 (81.3)	5	10,000	R6002
Fig. 1	THT-3-422-10	Polyester	White	1.000 (25.4)	0.375 (9.5)	1.075 (27.3)	0.475 (12.1)	3.350 (85.1)	3	10,000	R6007
Fig. 1	THT-5-422-10	Polyester	White	1.000 (25.4)	0.500 (12.7)	1.075 (27.3)	0.600 (15.2)	3.350 (85.1)	3	10,000	R6007
Fig. 2	THT-102-422-10	Polyester	White	1.500 (38.1)	0.370 (9.4)	-	0.500 (12.7)	1.700 (43.2)	1	10,000	R6000
Fig. 1	THT-147-422-10	Polyester	White	1.500 (38.1)	0.375 (9.5)	1.650 (41.9)	0.475 (12.1)	3.350 (85.1)	2	10,000	R6007
Fig. 1	THT-37-422-10	Polyester	White	1.500 (38.1)	0.500 (12.7)	1.650 (41.9)	0.600 (15.2)	3.350 (85.1)	2	10,000	R6007
Fig. 2	THT-17-422-3	Polyester	White	2.000 (50.8)	1.000 (25.4)	-	1.125 (28.6)	2.200 (55.9)	1	3,000	R6000
Fig. 2	THT-7-422-3	Polyester	White	2.750 (69.9)	1.250 (31.8)	-	1.375 (34.9)	2.950 (74.9)	1	3,000	R6002
Fig. 2	THT-18-422-3	Polyester	White	3.000 (76.2)	1.000 (25.4)	-	1.125 (28.6)	3.200 (81.3)	1	3,000	R6002
Fig. 2	THT-19-422-1	Polyester	White	3.000 (76.2)	2.000 (50.8)	-	2.125 (54.0)	3.200 (81.3)	1	1,000	R6002
Fig. 2	THT-76-422-1	Polyester	White	4.000 (101.6)	3.000 (76.2)	-	3.125 (79.4)	4.200 (106.7)	1	1,000	R6007



Additional Custom Material Available:



B-407 Polyolefin Material

Color: Clear Finish: Matte

Clear polyolefin material for general purpose labeling using thermal transfer technology. Its matte finish offers a "no label" look on matte surfaces. Can be used as an overlaminates. Not recommended for outdoor use.

Performance Attributes:



Available as a custom order.
Contact Customer Service at
1-888-272-3946 to order.

Master Material Index

This section provides a quick reference to Brady materials listed throughout this catalog, including basic attributes, applications and regulatory compliance where applicable.

For more detailed material attribute and performance information, please refer to the material's Technical Data Sheet, listed at BradyID.com/techdata.

	RoHS compliant material
	UL approved material*
	Materials evaluated to Canadian safety requirements
	CSA approved materials*
	Materials have static dissipative adhesives

Refer to page 235 for more information and complete listing of approved materials.

B-Number	Material	Finish	Color	Temperature Range	Performance Attributes	Properties & Applications	
 B-103	Polyester	Gloss	Clear	-94°F to 230°F	  	Clear polyester overlaminating tape offers additional protection against dirt, chemicals and abrasion on already printed materials.	RoHS
B-109†	Tag Material	Matte	White	-40°F to 120°F (-40°C to 49°C)	  	General-purpose tagging material with excellent tear- and chemical- resistance. Exhibits good weatherability, humidity resistance, and legibility after solvent exposure.	RoHS
B-145	Polypropylene	Matte	Gray	-40°F to 212°F (-40°C to 100°C)	 	Rigid polypropylene material can be used for a variety of tag applications including identification of multiconductor cables, inventory, equipment, lockout, safety warning repair and work-in-progress.	RoHS
B-321	Polyolefin	Matte	White	-40°F to 248°F (-40°C to 120°C)	  	Heat Shrinkable Wire Marker is a dot matrix printable wire and cable heat-shrinkable sleeve. Excellent resistance to oil and solvents.	RoHS
B-330	Polyolefin	Matte	White or Yellow	-94°F to 230°F (-70°C to 110°C) 24 hrs at 248°F (120°C)		Heat-shrinkable polyolefin film with a heat-activating adhesive. Can also be used without heat activation. A 72 hour dwell is recommended when product is not heat activated. To be used for identification of wire bundles, large conduits, and installed cables.	
B-342	Sleeve Material	Matte	White, Yellow, Black, Red, Blue, Green, Orange, Gray, Pink, Violet, Brown	-40°F to 267°F (-40°C to 130°C) 24 hrs at 350°F (180°C) 5 min at 500°F (260°C)	 	Heat-shrinkable sleeve with a 3:1 shrink ratio for wire and cable identification. Meets the material and physical property requirements of SAE AMS-DTL-23053/5C (class 1) for Insulation Sleeving and SAE AS-81531 for Marking of Electrical Insulating Materials, and MIL-STD-202.	RoHS
B-345	PVDF	Matt	Black, White, Yellow, Pink, Blue	-67°F to 437°F (-55°C to 225°C)	  	Irradiated polyvinylidene fluoride heat shrink tubing. Recommended for high temperature and low outgassing applications.	
 B-350	Polyester/Paper	Gloss	White	-94°F to 194°F (-70°C to 90°C)	  	Provides clear evidence of exposure to water for controlling invalid warranty claims, failure analysis or troubleshooting (service and repair).	 RoHS
 B-351	Vinyl	Matte	White	-40°F to 212°F (-40°C to 100°C)	  	Tamper-resistant film with a permanent acrylic adhesive. Good resistance to solvents and humidity. Designed to fracture easily to prevent one-piece removal.	 RoHS
B-358	Acetate	Gloss	Clear	-94°F to 176°F (-70°C to 80°C) 5 min at 302°F (150°C)		Tamper resistant film with a permanent acrylic adhesive. Designed to fracture easily when removal is attempted. For use as package seals/closures.	RoHS
 B-362	Metallized Vinyl	Matte	Silver	-40°F to 176°F (-40°C to 80°C)	  	Tamper-resistant metallized film. Good resistance to solvents and humidity. Designed to fracture easily to prevent one-piece removal.	 RoHS
 B-367 (Custom orders only)	Polypropylene	Gloss	Custom	-94°F to 194°F (-70°C to 90°C)	  	Leaves a customized footprint pattern (i.e. logos, special warnings, instructions) when label is removed, and pattern will appear on the top surface of the label in order to prevent it from being reused.	 RoHS
B-390	Polypropylene	Matte	White	-40°F to 212°F (-40°C to 100°C)	  	Wire marking carrier inserts that are designed to be printed and affixed to a wire using extruded, clear PVC Wire Marking Carriers.	RoHS
B-402	Paper	Matte	White	-94°F to 158°F (-70°C to 70°C)		Thermal transfer-printable paper with permanent adhesive. Applications in general labeling and bar code labeling. Aggressive adhesive for bonding to corrugated, films, plastic and steel surfaces.	RoHS
 B-407	Polyolefin	Matte	Translucent	-94°F to 194°F (-70°C to 90°C)	  	General purpose label for applications that require thermal transfer printable materials. Recommended for outdoor use.	RoHS
B-408	Paper	Matte	White	25°F to 158°F (4°C to 70°C)		Bar code and general labeling. Repositionable adhesive.	RoHS
B-411	Tag Material	Matte	White	-40°F to 122°F (-40°C to 50°C)		Designed printing in harsh environments. Resistant to water and chemicals. Not recommended for outdoor applications. Tag material designed for general purpose marking.	RoHS