

Brother™ Tape Technology

HGe
TAPE

TZe
TAPE

HSe
TUBE



- Abrasion Resistant
- Chemical Resistant



- UV Resistant
- Dielectric Strength

Brother™ Tape Technology

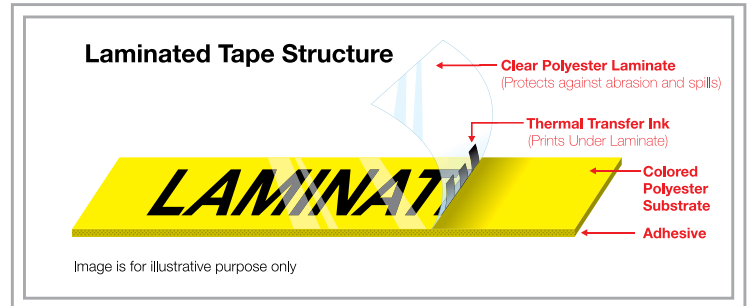
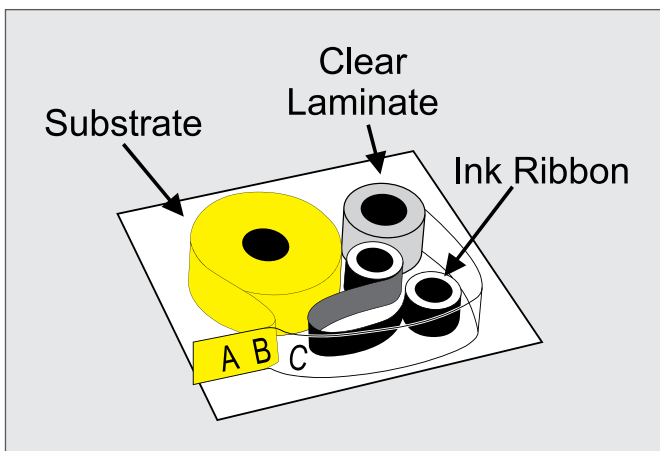
Everything to make laminated labels is preloaded

To help make printing laminated labels on-demand reliable and trouble free, Brother™ preloads all consumables needed into a drop-in cartridge design.

This means that when you print a laminated label, everything needed to produce that laminated label is already resident within the cartridge. So the printed label that emerges is already laminated; there's no additional process necessary to produce the finished label. You can simply peel off the backing and apply the label to virtually any surface, immediately.

Each cartridge contains:

- **A supply roll of colored polyester face stock with an acrylic adhesive coated on both sides (with silicon liner on bottom side)**
- **Supply and take up rolls for a colored ink ribbon designed to transfer to the polyester lamination**
- **A supply roll of matte finish or glossy clear polyester lamination**



How your laminated label is printed – content is printed under the lamination

The print head transfers the ink to the underside of the lamination, and then a pressure roller combines the “printed” lamination to the face stock, and “pushes” the laminated label to the cutting position where the label is then cut to your desirable length.

The laminated labels are produced from a continuous “tape” available in 6 standard widths (36mm, 24mm, 18mm, 12mm, 9mm and 6mm) and in the following adhesive types:

- **Standard Adhesive** – Designed with a medium adhesive coating for general purpose applications with a smooth and flat surface
- **Extra-Strength Adhesive** – Designed with a soft adhesive coating to increase surface area contact on plastics or textured surfaces
- **Flexible ID** – Designed with a hard adhesive coating to apply adhesive to adhesive (flag label) or adhesive to laminate (wrap around) for labeling cables and wires – the tape to take if you can only carry one
- **Tamper-Evident** – Designed with a special face stock that breaks apart if the laminated label is disturbed or removed



Tape durability test results

Brother™ used an independent laboratory in Japan to conduct durability testing on all Brother™ laminated labels. These tests include measuring the performance for abrasion, fading, hot and cold temperatures, exposure to chemicals and moisture.



Abrasion Resistance

After 50 round-trip passes with a 1 kg weighted sand eraser, Brother™ laminated tapes only came up slightly scratched with the characters underneath completely unaffected.



Chemicals and Water

Having bathed Brother™ laminated tapes in a variety of materials for two hours, they still managed to remain affixed to their surfaces with little damage. Even chemical spills, with a quick wiping, result in minimal damage.



Laminated Tape Adhesive Strength

Brother™ laminated tapes will adhere to almost any surface including: stainless steel, glass, PVC, acrylic, polypropylene, and polyester-coated wood. The tapes stand up to hot, cold, and humid conditions, and even adhere better when heated. Smooth, rough, flat or rounded surfaces are no problem for Brother™ laminated tapes.



Fade Resistance

Brother™ laminated tapes were attached to coated metal plates, and placed in a fade-inducing chamber at 83 degrees C for 100 hours to simulate a year in a sunny environment. Then they were placed in a chamber at 63 degrees C for 400 hours to simulate a year in, not only heat and light, but water as well. Only yellow tapes showed significant signs of fading while the others showed little sign of fading to the eye.



Dielectric Strength

In tests performed by Brother™, white P-touch® tapes with black characters began to lose their electric resistance at an applied voltage of 8kv, and lost their resistance entirely at 11kv. Most other color variations will have the same resistance.

UL recognized tapes



Brother™ has been given license to use this UL mark on the Brother™ tapes that have been tested and certified to become a UL recognized component under the UL-969 standard, Marking and Labeling Systems (ISBN 1-55989-895-X) categories PGJ12 and PGJ18. There are four categories under this standard:

- 1. Marking and Labeling System Materials (PGGU2, PGGU8)** – Individual label components (i.e. label stocks, laminating adhesives and overlaminates)
- 2. Marking and Labeling Systems (PGDQ2, PGDQ8)** – Finished systems that are supplied to end-product manufacturers that typically employ PGGU2 materials
- 3. Printing Materials (PGJ12, PGJ18)** – Pre-printed or unprinted systems that have been evaluated for additional printing by end-product manufacturers using thermal transfer or laser printing techniques
- 4. Limited Use Marking and Labeling Systems (PGIS2)** – Labels used in Cabinet and Box (UL50) applications and cord tags (flag type labels)

The suffix “2” indicates the recognition is established in accordance with UL requirements and the suffix “8” is with CSA requirements.

All material components that are used to print a label, including the printing process must be tested. UL also checks for quality control back to the material components supplier.

In simple terms, Brother™ defined the performance properties of specific tapes by part number, and UL certifies (tests) these tapes meet these properties and the results are published on the UL Website. An engineer or designer will then search for labels with properties that meet their specifications. The following Brother™ tapes are UL recognized:

- **Standard Adhesive HGe Tapes**
- **Extra-Strength Adhesive TZe and HGe Tapes**
- **Flexible ID TZe Tapes**
- **Tamper-Evident TZe Tapes**

To see the listings, visit the UL Website at www.ul.com and search the Online Certifications Directory for “MH21016” under the UL File Number.



	Cables/Wires	Faceplates	Patch Panels (Smooth)	Patch Panels (Textured)
Flexible ID Tape				
Standard Adhesive Tape				
Extra-Strength Adhesive Tape				
Tamper-Evident				



HGe tape is a new tape designed for commercial and industrial labeling applications, specifically for the model PT-9700PC and PT-9800PCN to print laminated labels up to 8 times faster than any current P-touch® label printer.

	6mm (0.23in)	9mm (0.35in)	12mm (0.47in)	18mm (0.7in)	24mm (0.94in)	36mm (1.4in)
HGe Extra-Strength Adhesive Tapes - 5 piece bulk packaging, designed for use on plastics, textured and hard to stick surfaces						
BLACK ON WHITE	23M317	23M318	23M319	23M320	23M321	23M322
BLACK ON YELLOW		23M323	23M324	23M325	23M326	23M327
BLACK ON MATTE SILVER				23M328	23M329	23M330
BLACK ON CLEAR		23M313	23M314	23M315	23M316	

HGe Standard Adhesive Tapes - General purpose applications

BLACK ON WHITE			HGe2215PK ²	HGe2315PK ²	HGe2415PK ²	HGe2515PK ²
BLACK ON YELLOW					HGe6415PK ²	HGe6515PK ²



TZe tapes feature the same laminated structure and durability of HGe tapes, but without the faster print speeds and higher resolution of up to 360 X 720 dpi offered by HGe tapes. TZe tapes are compatible with the PT-7100, PT-7500, PT-7600, PT-18RKT, PT-9700PC and PT-9800PCN, as well as all other P-touch® and P-touch EDGE® TZe compatible labelers.

	6mm (0.23in)	9mm (0.35in)	12mm (0.47in)	18mm (0.7in)	24mm (0.94in)	36mm (1.4in)
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Flexible ID Tapes - Individual tapes designed for wrapping around and adhesive-to-adhesive flag labels

BLACK ON WHITE				22KD91	22KD92	22KD93	22KD94
BLACK ON YELLOW				22KD95		22KD96	

Extra-Strength Adhesive Tapes - Individual tapes designed for plastics and textured surfaces

BLACK ON WHITE							
BLACK ON CLEAR							
BLACK ON YELLOW							
WHITE ON CLEAR							
BLACK ON MATTE SILVER							

Standard Adhesive Tapes - Individual tapes designed for use on smooth and flat surfaces

BLACK ON WHITE							
BLACK ON CLEAR							
BLACK ON RED							
BLACK ON YELLOW							
BLACK ON GREEN							
BLACK ON BLUE							
BLACK ON FL. ORANGE							
WHITE ON BLACK							
WHITE ON CLEAR							
WHITE ON BLUE							
RED ON WHITE							
BLUE ON WHITE							
GOLD ON BLACK							

²5m long

Tamper Evident Tapes - Individual tapes designed to reveal a security pattern when the label is removed or disturbed

BLACK ON WHITE						
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Print Head Cleaning Tapes - Maintains and restores print quality - Approx. 100 uses per tape

PRINT HEAD CLEANING TAPES						
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Stencil Tapes - Non-adhesive tape designed to mask ink or special fluids for direct part marking

BLACK ON WHITE						
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Only for PT-E300, PT-E500, PT-E550W and PT-P750wvp, will not work in other models.

HSe tube is a printable heat shrink tubing designed for the model PT-E300, PT-E500 and PT-E550W handheld labeling tools, and the PT-P750wvp, to mark cables, fiber and wires.

WARNING: This product contains a chemical known to the State of California to cause cancer.

HEAT SHRINK TUBE WIDTH: RECOMMENDED FOR (OUTSIDE DIAMETER):	5.8mm (0.23in) 1.7-3.2mm (0.07-0.13in)	8.8mm (0.34in) 2.6-5.1mm (0.10-0.20in)	11.7mm (0.46in) 3.6-7.0mm (0.14-0.28in)	17.7mm (0.69in) 5.4-10.6mm (0.21-0.42in)	23.6mm (0.92in) 7.3-14.3mm (0.28-0.56in)
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HSe Heat Shrink Tube - Individual heat shrink tube designed for the model PT-E300, PT-E500, PT-E550W and PT-P750wvp. 1.5m (4.9ft) long. 2:1 shrink ratio / 300V / 125°C / VW-1

BLACK ON WHITE					
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²Item available through Grainger Sourcing Only.

For more information contact your Grainger Representative or visit Grainger.com[®].