DETECTABLE TAPE (5.0 MIL)

Solid Aluminum Foil Core • Virgin Clear Polypropylene Film Laminated Top Structure Virgin Clear Polyethylene Film Laminated Base Structure • Reverse Printed Polypropylene Structure Acid, Alkali, Chemical, and Oil Resistant • Direct Burial Rated • Made in the USA

Applications and Information

- **Pro-Line's Detectable Marking Tape** is used for detecting, locating, identifying, and protecting buried utility lines for gas, water, sewer, telecommunication, and electrical markets. The width of tape used, is determined by the size of, and depth at which the underground utility line is buried. The depth at which detectable tape is buried, is determined by the width of the tape used.
- DETECT: Aluminum core is detected through means of inductive locating.
- **LOCATE:** Line is located and marked after inductive locating is performed.
- **IDENTIFY:** Utility type is identified by both the APWA color-code and utility legend printed on the marking tape.
- **PROTECT:** Detectable tape works 24 hours a day and year round, even if tape is not inductively located during excavation, the tape provides a "stop-sign" effect that is highly visible.

Standards and References

Pro-Line's Detectable Marking Tape meets or exceeds all applicable ASTM specifications.

- ASTM D2103-08: Standard Specification for Polyethylene Films and Sheeting.
- ASTM D882-09: Standard Test Method for Tensile Properties and Elongation of Thin Plastic Sheeting.
- ASTM D2578-08: Standard Test Method for Wetting Tension of Polyethylene and Polypropylene Films.
- ASTM D792-08: Standard Test Methods for Density of Plastics by Displacement.
- ASTM D671-93: Standard Test Method for Flexural Fatigue of Plastics.

Construction

Pro-Line's Detectable Marking Tape consists of a minimum 5.0 mil overall thickness. Construction is 0.8 mil clear virgin polypropylene film, reverse printed and laminated to a 0.35 solid aluminum foil core and then laminated to a 3.75 mil clear virgin polyethylene film. Tape is printed with our APWA Color-Coded, patented "Diagonally Striped" design with big, bold, black lettering to identify a specific buried utility line.

Specifications

DETECTABLE UNDERGROUND MARKING TAPE

Underground marking tape shall be a (2", 3", 4", 6", or 12" width), detectable marking tape, with a minimum 5.0 mil overall thickness. Tape shall be manufactured using a 0.8 mil clear virgin polypropylene film, reverse printed and laminated to a **0.35 mil solid aluminum foil core**, and then laminated to a 3.75 mil clear virgin polyethylene film. Tape shall be printed using a diagonally striped design for maximum visibility, and meet the APWA Color-Code standard for identification of buried utilities. Detectable marking tape shall be **Pro-Line Safety Products** or approved equal and made in the USA.

PROPERTY	2" WIDTH	3" WIDTH	4" WIDTH	6" WIDTH	12" WIDTH
Nominal Overall Thickness	5.0 mil				
Aluminum Foil Core Thickness	0.35 mil				
Polyethylene Film Thickness	3.75 mil				
Polypropylene Film Thickness	0.80 mil				
Polypropylene Print Method	Reverse Printed	Reverse Printed	Reverse Printed	Reverse Printed	Reverse Printed
Print Design #1 (Patented)	Diagional Striped				
Print Design #2 (Custom)	Solid Block				
Print Design #3 (Custom)	Solid Flood				
Print Design Color-Code	APWA Color-Code	APWA Color-Code	APWA Color-Code	APWA Color-Code	APWA Color-Code

*Diagional striped design is a PATENTED design of Pro-Line Safety Products that enhances tape visibility for superior protection. *Please note that there may be a nominal + or - 10% difference throughout the overall thickness.

TABLE 2: TESTING SPECIFICATIONS (Physical and Mechanical Properties)

TEST DESCRIPTION	STANDARD	2" WIDTH	3" WIDTH	4" WIDTH	6" WIDTH	12" WIDTH
Aluminum Foil Core	MFG. SPECS	Virgin Grade				
Polyethylene Film	MFG. SPECS	Virgin Grade				
Polypropylene Film	MFG. SPECS	Virgin Grade				
Adhesive Type	MFG. SPECS	AV1257/CA100	AV1257/CA100	AV1257/CA100	AV1257/CA100	AV1257/CA100
Adhesive Bond Strength	BOILING WATER	5 hrs W/O Peel				
Printed Inks	MFG. SPECS	Chromabond	Chromabond	Chromabond	Chromabond	Chromabond
Print Repeat	MFG. SPECS	Varies by Legend				
Coefficient Friction	ASTM D4521-96	0.247 Static				
Density	ASTM D792-66	1.09 g/cm ³				
Elongation (MD)	ASTM D882-80A	139%	139%	139%	139%	139%
Elongation (TD)	ASTM D882-80A	80%	80%	80%	80%	80%
Flexural Fatigue	ASTM D671-93	Pliable Hand				
Printability	ASTM D2578-08	45 Dynes				
Tensile Strength	ASTM D882-09	15,000 psi				

WEIGHTS, MEASUREMENTS AND PACKAGING

BASE	SIZE (WIDTH)	NOMINAL OVERALL THICKNESS	NOMINAL THICKNESS OF STRUCTURAL MATERIALS			RECOMMENDED	PRODUCT	STANDARD
PART NO. (X = Variable)			ALUMINUM FOIL THICKNESS	POLYETHYLENE THICKNESS	POLYPROPYLENE THCINKESS	BURIAL DEPTHS FOR DETECTION	WEIGHT PER ROLL	PACKAGING
D2105 XXXX	2" x 1000'	5.0 MIL	0.35 MIL	3.75 MIL	0.80 MIL	6-9 inches	4.75 lbs	9 / CARTON
D3105 XXXX	3" x 1000'	5.0 MIL	0.35 MIL	3.75 MIL	0.80 MIL	9-12 inches	7.13 lbs	6 / CARTON
D4105 XXXX	4" x 1000'	5.0 MIL	0.35 MIL	3.75 MIL	0.80 MIL	12-15 inches	9.50 lbs	4 / CARTON
D6105 XXXX	6" x 1000'	5.0 MIL	0.35 MIL	3.75 MIL	0.80 MIL	15-18 inches	14.25 lbs	3 / CARTON
D12105 XXX	12" x 1000'	5.0 MIL	0.35 MIL	3.75 MIL	0.80 MIL	18-24 inches	28.50 lbs	1 / CARTON
FOR CUSTOM LEGENDS OR SIZES CALL 800.554.3424								

PRINT LEGEND	PART #
CAUTION BURIED WATER LINE BELOW	52
CAUTION BURIED FORCE MAIN BELOW	1051
CAUTION BURIED FORCE MAIN BELOW	1051
CAUTION BUIRED SEWER LINE BELOW	4
CAUTION BURIED STORM DRAIN LINE BELOW	1054

	1051		CAUTION BURIED FIBER OPTIC CABLE BELOW
	4		CAUTION BURIED RECLAIMED WATER LINE BELO
W	1054		CAUTION BURIED ELECTRIC LINE BELOW
1 5 800	554 3424	**	CAUTION BUBIED GAS LINE BELOW

**OTHER LEGENDS AVAILABLE, CALL FOR DETAILS 800.554.3424



PRO-LINE SAFETY PRODUCTS, A Trident Company 1099 ATLANTIC DRIVE, UNIT 1 • WEST CHICAGO, IL 60185

ARKING

TOLL FREE: 800.554.3424 Revised 8-16-2024

PRINT LEGEND

CAUTION BURIED COMMUNICATION LINE BELOW

CAUTION BURIED TELEPHONE LINE BELOW

PART #

1064

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