



Underground Detectable Tape

(Domestic)

Spec Sheet

Base Sku: D



DESCRIPTION:

Our Domestic Detectable Marking Tape is used for detecting, locating, identifying, and protecting buried utility lines for gas, water, sewer, telecommunications, and electrical markets. The width of tape used is determined by the size-of and depth at which the utility line is buried. The aluminum core is detected through means of inductive locating. The line is located and marked after locating is performed. Utility type is identified by both the APWA color code and legend printed on the tape. Detectable tape works 24 hours a day - year round even if the tape is not inductively located before excavation. The tape provides a "stop sign" effect that is highly visible during the diggin process.

CONSTRUCTION:

- Minimum 5.0 mil overall thickness
- 0.8 mil clear virgin polypropylene film
- Printed film laminated to 0.35 mil solid aluminum core
- Aluminum core laminated to 3.75 mil clear virgin polypropylene film
- All APWA colors available
- Prined with our patented Diagonally Striped design with bold black legend

ASTM SPECIFICATIONS:

- ASTM D2103-08: Standard Specification for Polyethylene Film 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

SAMPLE SPECIFICATION:

Underground marking tape shall be a 2, 3, 4, 6, or 12" width detectable 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 .035 mil solid aluminum core, and then laminated to a 3.75 mil clear virgin polypropylene 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 be Trident Solutions or approved equal and made in the USA.

PART #	PRINT LEGEND
1064	CAUTION BURIED COMMUNICATION LINE BELOW
54	CAUTION BURIED TELEPHONE LINE BELOW
51	CAUTION BURIED FIBER OPTIC CABLE BELOW
115	CAUTION BURIED RECLAIMED WATER LINE BELOW
6	CAUTION BURIED ELECTRIC LINE BELOW
5	CAUTION BURIED GAS LINE BELOW

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

OTHER LEGENDS AVAILABLE, CALL FOR DETAILS 800.554.3424



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DETECTABLE TAPE CONSTRUCTION (Polypropylene, Aluminum Foil, and Polyethylene)

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

Note: There may be a nominal + or - 10% difference throughout the overall thickness.

TESTING SPECIFICATIONS (Physical & Mechanical Properties)

Property	Standard	2" Width	3" Width	2" Width	3" Width	3" Width
Aluminum Foil Core	MFG. Specs	Virgin Grade	Virgin Grade	Virgin Grade	Virgin Grade	Virgin Grade
Polyethylene Film	MFG. Specs	Virgin Grade	Virgin Grade	Virgin Grade	Virgin Grade	Virgin Grade
Polypropylene Film	MFG. Specs	Virgin Grade	Virgin Grade	Virgin Grade	Virgin Grade	Virgin Grade
Adhesive Tape	MFG. Specs	AV1257 / CA100	AV1257 / CA100	AV1257 / CA100	AV1257 / CA100	AV1257 / CA100
Adhesive Bond Strength	Boiling Water	5 hrs W/O Peel	5 hrs W/O Peel	5 hrs W/O Peel	5 hrs W/O Peel	5 hrs W/O Peel
Printed Inks	MFG. Specs	Chromabond	Chromabond	Chromabond	Chromabond	Chromabond
Print Repeat	MFG. Specs	Varies by Legend	Varies by Legend	Varies by Legend	Varies by Legend	Varies by Legend
Coefficient Friction	ASTM D4521-96	0.247 Static	0.247 Static	0.247 Static	0.247 Static	0.247 Static
Density	ASTM D792-66	1.09 g/cm ³	1.09 g/cm ³	1.09 g/cm ³	1.09 g/cm ³	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	Pliable Hand	Pliable Hand	Pliable Hand	Pliable Hand
Printability	ASTM D2578-08	45 Dynes	45 Dynes	45 Dynes	45 Dynes	45 Dynes
Tensile Strength	ASTM D882-09	15,000 psi	15,000 psi	15,000 psi	15,000 psi	15,000 psi

WEIGHTS - MEASUREMENTS - PACKAGING

Base Part Number (X = Variable)	Size (Width)	Nominal Overall Thickness	Nominal Thickness of Structural Materials			Recommended Burial Depths For Detection	Product Weight Per Roll	Standard Packaging
			Aluminum Foil Thickness	Polyethylene Thickness	Polypropylene Thickness			
D2105XXX	2" x 1000'	5.0 mil	0.35 mil	3.75 mil	0.80 mil	6-9 Inches	4.75 lbs	9 / Carton
D3105XXX	3" x 1000'	5.0 mil	0.35 mil	3.75 mil	0.80 mil	9-12 Inches	7.13 lbs	6 / Carton
D4105XXX	4" x 1000'	5.0 mil	0.35 mil	3.75 mil	0.80 mil	12-15 Inches	9.50 lbs	4 / Carton
D6105XXX	6" x 1000'	5.0 mil	0.35 mil	3.75 mil	0.80 mil	15-18 Inches	14.25 lbs	3 / Carton
D12105XXX	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 1-800-527-3295****

TridentProducts.com | 1-800-527-3295

A Pro-Line Safety Product

Effective: 7-16-2025

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