

TERRA TAPE®

DIVISION OF REEF INDUSTRIES, INC.



BARRICADE AND UNDERGROUND MARKING TAPES



Detectable Marking Tapes

Sentry Line™ Detectable tapes may be located by inductive or conductive methods utilizing most standard pipe and cable locators.

Color coded for application and non-adhesively laminated, Sentry Line tapes are colorfast and chemically inert for lifetime stability underground and have been successfully located more than twenty years after interment. Also available in reinforced and non-reinforced grades.

Sentry Line™ Reinforced Detectable

The top of the line in detectable tapes. Superior tensile strength and puncture resistance allows it to withstand the rigors of being plowed in without breaking. This also makes it ideal for

situations where site conditions are difficult.

Sentry Line™ Detectable Similar to above but with lower tensile strength and puncture resistance.

Terra Clips are used to electrically connect one roll of detectable tape to the next and for connecting lengths of tape placed over laterals or tees.

These must be installed at the time the tape is buried if the location method will be conductive but they can also be used to enhance continuous inductive location. Terra Clips are packaged in bags suitable for making 5 splices or bulk packaged.



RECOMMENDED PLACEMENT DEPTHS OF DETECTABLE TAPES:

As a general guideline we recommend the following depths be followed unless the product has been proven to be locatable at deeper depths with the type of locator being used, soil conditions, etc. These are guidelines only:

2 inch width up to 12 inches deep
3 inch width up to 24 inches deep
6 inch width up to 36 inches deep

Many of the more sensitive locators on the market may be capable of locating at twice or more the recommended depths shown.

Factors that may affect location depth and

distance include the following:

- Type and sensitivity of locator being utilized.
- Type of location method being utilized.
- Distance the receiver is from the transmitter.
- Location of other metallic underground structures to the tape.
- Experience of the person using the locator with the operation of that model of locator.
- Type of soil and/or surfaces above marking tape.
- Moisture level of the soil.
- Condition of batteries in locator.

Magnetic locators or ferrous metal locators will not be able to locate detectable tape at any depth since detectable tape is aluminum based, which is a non-ferrous metal.



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1.800.231.6074 **USA**
001.800.426.1447 **Mexico**



Non-Detectable Marking Tapes

Extra Stretch™ underground marking tape can help prevent the high cost of accidental line damage and the inconvenience of service interruptions.

Performance proven the world over for protecting telecommunications, electric, gas and other utilities. *Extra Stretch*™ is unsurpassed in its balance of high tensile strength, puncture resistance and excellent elongation

properties. This unique combination of properties allows it to stretch above grade level in one continuous piece, ensuring jobsite personnel and machine operators will be alerted to stop digging immediately and contact the appropriate authorities. Easy to install, *Extra Stretch*™ is available in a variety of imprints, colors and sizes to meet your specific requirements.



RECOMMENDED PLACEMENT DEPTH OF NON-DETECTABLE TAPES

Placement depths of non-detectable tape will vary depending upon the strength and elongation rates of the tape used as well as the soil conditions encountered.

As a general guideline we recommend placing the product as shallow as possible but not deeper than the following maximum depths.

Placement of Non-Detectable Tapes

3 inch width - Not more than 12 to 16 inches below finished surface grade.

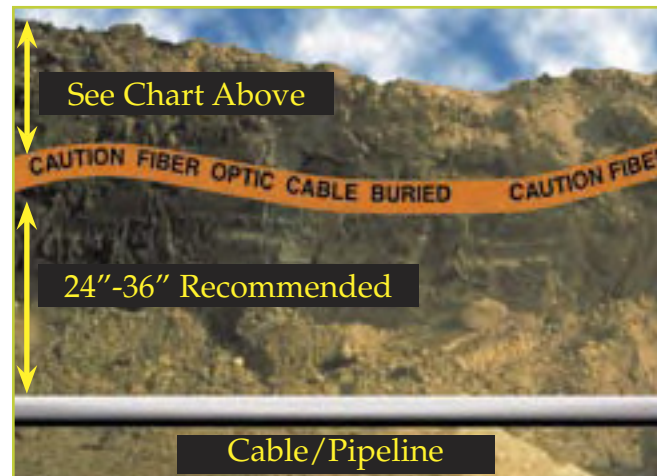
6 inch width - Not more than 20 to 28 inches below finished surface grade.

Depths shown are based on *Extra Stretch*[™]. Products with lower elongation, puncture resistance and tensile strength should be placed nearer to the surface.

Premium is a heavy gauge product with very high tensile strength and excellent elongation. Premium is suitable for installations where the potential for a cable/pipe cut is high but where soil conditions may not require the toughness of *Extra Stretch*[™]. Premium can also be installed with a cable plow.

Standard and Economy are lighter grade materials designed to provide needed performance and protection within project budget constraints.

Extra Strength is a heavy duty reinforced tape with high tensile strength, excellent tear and puncture resistance which is designed not to stretch.



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Modifying your plow

Plow modification enabling the installation of Terra Tape is straightforward and relatively simple. The following tips should help to ensure satisfactory operation.

Vibratory plow roll mount Roll mount should be on the tractor to avoid vibration of the shank. Roll can be mounted on its side or upright, in either case, utilizing a method minimizing rolling friction as much as possible. For versatility, set up the mount to accept the standard widths of 2, 3 and 6 inches with roll diameters up to 24 inches.



Static plow roll mount Roll mount should be directly above tape as in photo at right. The axle mount should allow free rotation and minimize friction.

Side flanges

Diameter of side flanges should be at least as large as the diameter of the tape being installed. These are available as an option or can be made from steel or plywood.

Tape chute

The top portion of chute should be properly aligned toward roll mount and fluted as much as possible with no rough edges.



Use a thin walled pipe with as large an inside diameter as possible, but not wider than the widest part of the plow shank.

Curves or bends must be as gentle as possible with no burrs or rough spots inside the pipe, especially at the entrance and exit points.

If high winds cause the tape to unspool, use large hoops or short sections of pipe as needed for the tape to travel through until it reaches the tape chute.

Tape chute mount

Must be adjustable up and down along the back of the plow shank to allow for the tape to be installed at the correct depth even if the cable depth needs to be altered.



Use three or more adjustable brackets to hold the chute to the back of the plow shank. The type of brackets used will vary depending on type of plow used. The brackets should be welded to the back of the plow shank and centered so the tape chute travels directly behind the shank without touching the ground while being pulled through the earth.



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Locating Sentry Line™ Detectable Marking Tapes

There are two basic methods of locating, inductive and conductive. Either method gives you easy location of your buried utility lines with the benefits of reduced dig-ins from the readily identified warning tape.

The locator used must be capable of locating aluminum. Most standard pipe and cable locators will work fine depending on the frequency of the locator and the location method used.

Typically, radio frequency (high frequency) locators work better in the inductive mode and audio frequency (low frequency) locators work better in the conductive mode when locating tape.

For specific information on locating with your brand and model of locator refer to your locator manual or contact the manufacturer. The information contained here is intended as a guideline only.

Inductive locating

Place the transmitter portion of the locator directly above and parallel to a known section of tape to induce the signal through the ground onto the tape. Alternatively, an inductive couple can be used if a section of the

tape is accessible. The transmitter should be in the radio or high frequency mode.

Sweep the receiver in a circle around the transmitter approximately 20 to 50 feet from the transmitter until the signal from the tape is found. Attempting to get closer than this to the transmitter can result in false location due to the transmitter overpowering the receiver.

Once the tape is found, continue locating until the signal strength drops off. Mark this spot, move the transmitter to the spot and continue as above.

During installation, the ends of each roll, lateral, or tee should be overlapped at least a foot or more to avoid dead spots while locating. For easier location, Terra Clips can be used to connect the ends of each roll, tee or lateral.

Inductive locating is the most widely used location method for marking tape and is the easiest to install. No electrical connections of individual rolls are required during installation and no access to the tape is required during location.

Conductive locating

With the conductive method you must make an electrical connection with the solid aluminum core inside the tape from roll to roll during installation and onto the tape when locating. Terra Clips, an accessory item, make the necessary electrical connections.

Using the transmitter, in audio frequency or low frequency mode, connect to a section of tape using a Terra Clip. Leaving a few feet of tape in a pedestal or riser box provides easy access and avoids requiring the tape be dug up. A ground rod or ground plane is then connected to the transmitter and placed at a 90° angle to the tape.

Location is then performed in the same way as in the inductive method. The distance the locator is capable of locating under the installed conditions must be taken into account before the installation is started to ensure that the distance between access points is not greater than one half the maximum location distance.



Splicing with Terra Clips

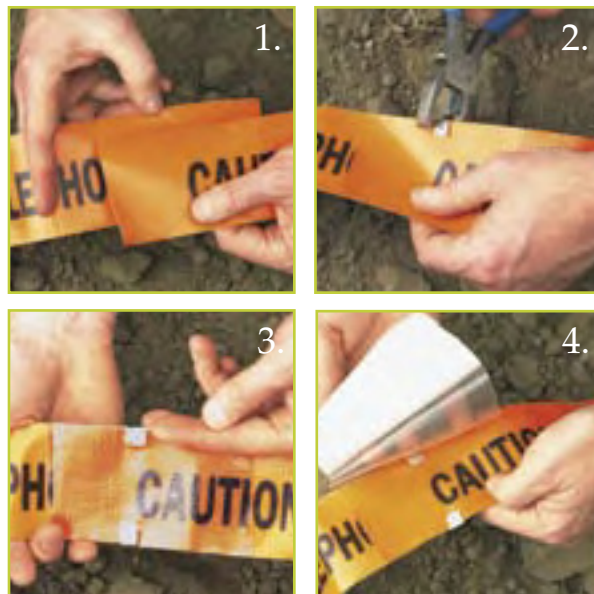
Terra Clips are used to make an electrical connection to the solid aluminum foil in Sentry Line tape and can be utilized when locating conductively or inductively.

Overlap each section of tape to be spliced. Place one clip on each side of the overlapping sections and crimp each clip securely with pliers.

The electrical continuity can then be tested with an ohmmeter; the resistance should read zero ohms. Seal the connections with the provided sealing tape by pressing firmly so that it forms a tight waterproof seal and install.

Terra Clips

Terra Clips electrically connect sections of tape by piercing the protective plastic jacket of the tape that encases the foil.



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CAUTION ELECTRIC LINE BURIED BELOW

CAUTION HIGH VOLTAGE CABLE BURIED BELOW

CAUTION WATER LINE BURIED BELOW

CAUTION SEWER LINE BURIED BELOW

CAUTION COMMUNICATIONS CABLE BURIED BELOW

CAUTION FIBER OPTIC CABLE BURIED BELOW

CAUTION TELEPHONE CABLE BURIED BELOW

CAUTION CATV CABLE BURIED BELOW

CAUTION GAS LINE BURIED BELOW

CAUTION PIPELINE BURIED BELOW

CAUTION CATHODIC PROTECTION LINE BURIED BELOW

Stock Imprints

(All printed in permanent black ink on colored tape)

Not all imprints may be available in all sizes, material types and colors.

APWA Color Code

(Used in the U.S.A. and many other countries)

RED	Electric Power Lines, Cables, Conduit and Lighting Cables.
YELLOW	Oil, Gas, Steam, Petroleum or Gaseous Materials.
BLUE	Water, Irrigation and Slurry Lines.
GREEN	Sewer and Drain lines.
ORANGE	Communication, Alarm or Signal Lines, Cables or Conduits.

Custom Imprints

- All Terra Tape products can be custom imprinted with your own message, insignia or logo.
- We can imprint in any language or combination of languages.
- Imprints can also be printed in up to four colors.
- We manufacture our own printing plates to reduce your plate charges on custom orders.

Minimum orders may apply.



Options

- Plastic cores.
- Dispenser boxes.
- Individual or custom boxing.
- Dispenser reels and handles.
- Shrink wrapping of individual rolls.
- Coatings over the imprint (subsurface printing).
- Export shipping.
- Terra Clips (see Sentry Line Detectable tape section).
- Large diameter sideboards and core plugs for long roll lengths.

Not all options may be available on all materials and minimum orders may apply.

Stock Sizes

- All Terra Tape products are available in 3"x1,000' and 6"x1,000' rolls.
- Many imprints in Sentry Line and Sentry Line Reinforced Detectable are also available in 2"x1,000' rolls.
- Fiber optic and telephone imprints in Extra Stretch™, Premium and Standard are also stocked in 3"x6,000' and 6"x6,000' sizes.
- All stock 6,000' rolls are on plastic cores.

Custom Sizes

Widths of 2" to 48" and lengths up to 10,000' are available (depending on material selected). Minimum orders may apply.



Special Orders/Options

Terra Tape may also be custom manufactured/configured to your specific needs. Please talk to your salesperson about the availability of your request.



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STOCK ITEM LIST

Imprints on 3" wide stock items are one line:

Imprints on all 6" wide stock items are two lines:

CAUTION _____ BURIED BELOW

CAUTION CAUTION
_____ BURIED BELOW

The word or words shown below replace blank line. All stock imprints are printed in permanent black ink.

This list represents stock items only and does not include seasonally stocked items, overruns or discontinued items that might be available. Please inquire if you do not see an item you want.

ECONOMY (NON-DETECTABLE)

42-0136	ORG	3"X1000'	TELEPHONE CABLE
42-0104	RED	3"X1000'	ELECTRIC LINE
42-0105	RED	6"X1000'	ELECTRIC LINE
42-0049	YEL	3"X1000'	GAS LINE

STANDARD (NON-DETECTABLE)

42-0002	ORG	3"X1000'	CATV CABLE
42-0004	ORG	3"X1000'	COMMUNICATIONS CABLE
42-0007	ORG	6"X1000'	COMMUNICATIONS CABLE
42-0001	ORG	3"X1000'	FIBER OPTIC CABLE
42-0005	ORG	3"X6000'	FIBER OPTIC CABLE
42-0008	ORG	6"X1000'	FIBER OPTIC CABLE
42-0011	ORG	6"X6000'	FIBER OPTIC CABLE
42-0003	ORG	3"X1000'	TELEPHONE CABLE
42-0006	ORG	3"X6000'	TELEPHONE CABLE
42-0010	ORG	6"X1000'	TELEPHONE CABLE
42-0106	RED	3"X1000'	ELECTRIC LINE
42-0108	RED	6"X1000'	ELECTRIC LINE
42-0054	YEL	3"X1000'	ELECTRIC LINE
42-0059	YEL	6"X1000'	ELECTRIC LINE
42-0107	RED	3"X1000'	HIGH VOLTAGE CABLE
42-0053	YEL	3"X1000'	GAS LINE
42-0058	YEL	6"X1000'	GAS LINE
42-0060	YEL	6"X1000'	PIPELINE
42-0056	YEL	3"X1000'	CATHODIC PROTECTION LINE
42-0075	BLU	3"X1000'	WATER LINE
42-0076	BLU	6"X1000'	WATER LINE
42-0152	PUR	3"X1000'	RECLAIMED WATER
42-0153	PUR	6"X1000'	RECLAIMED WATER
42-0114	GRN	3"X1000'	SEWER LINE
42-0115	GRN	6"X1000'	SEWER LINE
42-0150	BRN	3"X1000'	FORCE MAIN
42-0151	BRN	6"X1000'	FORCE MAIN

EXTRA STRETCH II (NON-DETECTABLE)

42-0158	ORG	3"X1000'	FIBER OPTIC CABLE
42-0159	ORG	3"X6000'	FIBER OPTIC CABLE
42-0162	ORG	6"X1000'	FIBER OPTIC CABLE
42-0163	ORG	6"X6000'	FIBER OPTIC CABLE
42-0160	ORG	3"X1000'	TELEPHONE CABLE
42-0161	ORG	3"X6000'	TELEPHONE CABLE
42-0164	ORG	6"X1000'	TELEPHONE CABLE
42-0165	ORG	6"X6000'	TELEPHONE CABLE

EXTRA STRETCH® (NON-DETECTABLE)

42-0022	ORG	3"X1000'	CATV CABLE
42-0021	ORG	3"X1000'	FIBER OPTIC CABLE
42-0026	ORG	3"X6000'	FIBER OPTIC CABLE
42-0028	ORG	6"X1000'	FIBER OPTIC CABLE
42-0033	ORG	6"X6000'	FIBER OPTIC CABLE
42-0024	ORG	3"X1000'	TELEPHONE CABLE
42-0027	ORG	3"X6000'	TELEPHONE CABLE
42-0030	ORG	6"X1000'	TELEPHONE CABLE
42-0034	ORG	6"X6000'	TELEPHONE CABLE
42-0119	RED	3"X1000'	ELECTRIC LINE
42-0120	RED	6"X1000'	ELECTRIC LINE
42-0082	YEL	3"X1000'	ELECTRIC LINE
42-0085	YEL	6"X1000'	ELECTRIC LINE
42-0081	YEL	3"X1000'	GAS LINE
42-0084	YEL	6"X1000'	GAS LINE

More on back...

SENTRY LINE® DETECTABLE

42-0039	ORG	3"X1000'	COMMUNICATIONS CABLE
42-0042	ORG	6"X1000'	COMMUNICATIONS CABLE
42-0037	ORG	3"X1000'	FIBER OPTIC CABLE
42-0040	ORG	6"X1000'	FIBER OPTIC CABLE
42-0038	ORG	3"X1000'	TELEPHONE
42-0041	ORG	6"X1000'	TELEPHONE
42-0064	YEL	3"X1000'	ELECTRIC LINE
42-0069	YEL	6"X1000'	ELECTRIC LINE
42-0123	RED	2"X1000'	ELECTRIC LINE
42-0110	RED	3"X1000'	ELECTRIC LINE
42-0112	RED	6"X1000'	ELECTRIC LINE
42-0111	RED	3"X1000'	HIGH VOLTAGE CABLE
42-0095	YEL	2"X1000'	GAS LINE
42-0063	YEL	3"X1000'	GAS LINE
42-0068	YEL	6"X1000'	GAS LINE
42-0065	YEL	3"X1000'	PIPELINE
42-0100	BLU	2"X1000'	WATER LINE
42-0073	BLU	3"X1000'	WATER LINE
42-0074	BLU	6"X1000'	WATER LINE
42-0156	PUR	3"X1000'	RECLAIMED WATER
42-0157	PUR	6"X1000'	RECLAIMED WATER
42-0125	GRN	2"X1000'	SEWER LINE
42-0116	GRN	3"X1000'	SEWER LINE
42-0117	GRN	6"X1000'	SEWER LINE
42-0154	BRN	3"X1000'	FORCE MAIN
42-0155	BRN	6"X1000'	FORCE MAIN

SENTRY LINE® REINFORCED DETECTABLE

42-0046	ORG	6"X1000'	FIBER OPTIC CABLE
42-0122	RED	6"X1000'	ELECTRIC LINE

TERRA CLIPS TO USE WITH SENTRY LINE®

Required to maintain continuity from roll to roll when conductively locating detectable tape.

60-0085 TERRA CLIPS - BAG OF 10

ACCESSORIES

75-0014	DISPENSER BOXES - REUSABLE (for 3" x 1000' economy or standard)
75-0043	DISPENSER BOXES - REUSABLE (for 6" x 1000' economy or standard)
60-0090	REELS AND HANDLES (with sideboards) (for use with any 3" x 1000' Terra Tape® product)
60-0094	REELS AND HANDLES (with sideboards) (for use with any 6" x 1000' Terra Tape® product)

APWA UNIFORM COLOR CODE

(ANSI Standard Z 535.1)

RED	Electric power lines, cables, conduit and lighting cables
YELLOW	Gas, oil, steam, petroleum or gaseous materials
ORANGE	Communication, alarm or signal lines, cables or conduits
BLUE	Potable water
PURPLE	Reclaimed water, irrigation and slurry lines
GREEN	Sewer and drain lines

All 6,000 foot rolls are shipped on plastic cores. All products are shipped in cardboard cartons, larger orders ship in cardboard cartons secured to wood pallets.

Any Terra Tape® products can be custom printed with your own message, insignia or logo in up to four different ink colors.

Other options include roll lengths to 10,000 feet and widths up to 48 inches, sideboards for 6,000 foot rolls, plastic cores, end of roll indicators, multiple color imprints, custom packaging, export documentation and many more. Please ask your salesperson which options can be applied to the material(s) you are interested in.

All information subject to change without notice. 02/11

PHYSICAL PROPERTIES AND TYPICAL VALUES

PROPERTY	ASTM TEST METHOD	U.S. VALUE	METRIC VALUE
Thickness Overall	D-2103	3.0 MIL	0.08 MM
Weight	D-2103	15.0 LBS/1000 FT ²	7.3 KG/100 M ²
3" Tensile	D-882	24.5 LBF	109 N
		2700 PSI	18.6 MPA
Elongation	D-882	680 %	680 %
PPT Resistance	D-2582	13.5 LBF	60 N
Printability	D-2578	≥ 40 Dynes	≥ 40 Dynes

FEATURES

- Terra Tape® Economy is a pigmented polyolefin film with a printed message on one side used to protect, identify and locate underground utility lines.
- The ink used to print the material is permanent and cannot be removed by normal handling or upon long term underground burial.
- The material and ink are chemically inert and will not degrade when exposed to acids, alkalies and other destructive substances commonly found in soil.
- The material is available in red or yellow. Other colors may be available upon request.

The information provided herein is based upon data believed to be reliable. All testing is performed in accordance with ASTM standards and procedures. All values are typical and nominal and do not represent either minimum or maximum performance of the product. Although the information is accurate to the best of our knowledge and belief, no representation of warranty or guarantee is made as to the suitability or completeness of such information. Likewise, no representation of warranty or guarantee, expressed or implied, or merchantability, fitness or otherwise, is made as to product application for a particular use.

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PHYSICAL PROPERTIES AND TYPICAL VALUES

PROPERTY	ASTM TEST METHOD	U.S. VALUE	METRIC VALUE
Thickness Overall	D-2103	4.0 MIL	0.1 MM
Weight	D-2103	18.5 LBS/1000 FT ²	9.0 KG/100 M ²
3" Tensile	D-882	34 LBS	151 N
		2800 PSI	19.3 MPA
Elongation	D-882	800 %	800 %
PPT Resistance	D-2582	14 LBF	62 N
Printability	D-2578	≥ 40 Dynes	≥ 40 Dynes

FEATURES

- Terra Tape® Standard is a pigmented polyolefin film with a printed message on one side used to protect, identify and locate underground utility lines.
- The ink used to print the material is permanent and cannot be removed by normal handling or upon burial.
- The material and ink are chemically inert and will not degrade when exposed to acids, alkalies and other destructive substances commonly found in soil.
- The material is available in the colors red, orange, yellow, blue, green and white. Other colors may be available upon request.

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PHYSICAL PROPERTIES AND TYPICAL VALUES

PROPERTY	ASTM TEST METHOD	U.S. VALUE	METRIC VALUE
Thickness Overall	D-2103	6.0 MIL	0.15 MM
Weight	D-2103	27.5 LBS/1000 FT ²	13.4 KG/100 M ²
3" Tensile	D-882	50.0 LBS	222 N
		2770 PSI	19.1 MPA
Elongation	D-882	1000 %	1000 %
PPT Resistance	D-2582	19 LBF	85 N
Printability	D-2578	≥ 40 Dynes	≥ 40 Dynes

FEATURES

- Terra Tape® Premium is a pigmented polyolefin film with a printed message on one side used to protect, identify and locate underground utility lines.
- The ink used to print the material is permanent and cannot be removed by normal handling or upon burial.
- The material and ink are chemically inert and will not degrade when exposed to acids, alkalies and other destructive substances commonly found in soil.
- The material is available in the colors orange, yellow and white. Other colors may be available upon request.

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PHYSICAL PROPERTIES AND TYPICAL VALUES

PROPERTY	ASTM TEST METHOD	U.S. VALUE	METRIC VALUE
Thickness Overall	D-2103	11.0 MIL	0.28 MM
Weight	D-2103	35.5 LBS/1000 FT ²	17.3 KG/100 M ²
3" Tensile	D-882	400 LBF	1780 N
		11300 PSI	77.9 MPA
Elongation	D-882	20 %	20 %
PPT Resistance	D-2582	50 LBF	222 N
Printability	D-2578	≥ 40 Dynes	≥ 40 Dynes

FEATURES

- Terra Tape® Extra Strength is a strong, tear resistant and tough reinforced marking tape designed not to stretch and to break cleanly without distortion when caught by an excavating backhoe.
- Extra Strength is a multi-layer laminate consisting of an HDPE scrim coated on both sides with 100% virgin polyolefin pigmented resins. A printed message is on one side and the product is used to protect, identify and locate underground utility lines.
- The ink used to print the material is permanent and cannot be removed by normal handling or upon burial.
- The material and ink are chemically inert and will not degrade when exposed to acids, alkalis and other destructive substances commonly found in soil.
- The material is available in the colors orange and yellow. Other colors may be available upon request.

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PHYSICAL PROPERTIES AND TYPICAL VALUES

PROPERTY	ASTM TEST METHOD	U.S. VALUE	METRIC VALUE
Thickness Overall	D-2103	8.0 MIL	0.20 MM
Weight	D-2103	29 LBS/1000 FT ²	14.2 KG/100 M ²
3" Tensile	D-882	70 LBS	311 N
		2900 PSI	20 MPA
Elongation	D-882	825 %	825 %
PPT Resistance	D-2582	30 LBF	133 N
Printability	D-2578	≥ 40 Dynes	≥ 40 Dynes

FEATURES

- Terra Tape® Extra Stretch™ is formulated from 100% virgin polyolefin pigmented film with a printed message on one side used to protect, identify and locate underground utility lines.
- Constructed by mechanical (non-adhesive) lamination of two plies of three ply blown film to produce the bi-axially oriented six ply structure.
- The ink used to print the material is permanent and cannot be removed by normal handling or upon burial.
- The material and ink are chemically inert and will not degrade when exposed to acids, alkalies and other destructive substances commonly found in soil.
- The material is available in the colors red, orange and yellow. Other colors may be available upon request.

The information provided herein is based upon data believed to be reliable. All testing is performed in accordance with ASTM standards and procedures. All values are typical and nominal and do not represent either minimum or maximum performance of the product. Although the information is accurate to the best of our knowledge and belief, no representation of warranty or guarantee is made as to the suitability or completeness of such information. Likewise, no representation of warranty or guarantee, expressed or implied, or merchantability, fitness or otherwise, is made as to product application for a particular use.

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Des de Mexico 001.800.426.1447

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PHYSICAL PROPERTIES AND TYPICAL VALUES

PROPERTY	ASTM TEST METHOD	U.S. VALUE	METRIC VALUE
Thickness Overall	D-2103	5.0 MIL	0.125 MM
Thickness Foil Core	D-2103	0.35 MIL	8.89 Microns
Weight	D-2103	27 LB/1000 FT ²	13.2 KG/100 M ²
3" Tensile	D-882	62 LBF	276 N
		4200 PSI	28.9 MPA
Elongation	D-882	150 %	150 %
Printability	D-2578	≥ 40 Dynes	≥ 40 Dynes

FEATURES

- Sentry Line Detectable is a tri-layer laminate consisting of a printed film, a solid foil core and a clear encapsulating film. It is designed to protect, identify and locate underground utility lines.
- The solid foil core is encased between a 100% virgin polyolefin pigmented film and a clear protective film that allows a full view of the foil to ensure continuity. The solid core provides for detectability utilizing either the inductive or conductive modes using a pipe and cable locator.
- Terra Clips (available as an accessory item) are designed to allow you to connect multiple rolls while maintaining electrical continuity.
- The ink used to print the material is permanent and cannot be removed by normal handling or upon burial.
- The material and ink are chemically inert and will not degrade when exposed to acids, alkalis and other destructive substances commonly found in soil.
- Terra Tape Sentry Line Detectable is available in the colors red, orange, yellow, blue and green. Other colors may be available upon request.

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PHYSICAL PROPERTIES AND TYPICAL VALUES

PROPERTY	ASTM TEST METHOD	U.S. VALUE	METRIC VALUE
Thickness Overall	D-2103	7.0 MIL	0.17 MM
Thickness Foil Core	D-2103	0.35 MIL	8.89 Microns
Weight	D-2103	32 LBS/1000 FT ²	15.6 KG/100 M ²
3" Tensile	D-882	300 LBF	1334 N
		15300 PSI	105.5 MPA
Elongation	D-882	20 %	20 %
Tensile	D-5034	135 LBF	600 N
Elongation		20%	20%
Tensile	D-5035	55 LBF	245 N
Elongation		8%	8%
PPT Resistance	D-2582	8.0 LBF	35.6 N
Printability	D-2578	≥ 40 Dynes	≥ 40 Dynes

FEATURES

- Sentry Line Reinforced Detectable is a tri-layer laminate consisting of a coated woven scrim, a solid foil core, and a clear encapsulating film. It is designed to protect, identify and locate underground utility lines.
- The solid foil core is encased between an HDPE scrim coated with 100% virgin polyolefin pigmented resins and a clear protective film that allows a full view of the foil to ensure continuity. The solid core provides detectability utilizing either the inductive or conductive modes using a pipe and cable locator.
- Terra Clips (available as an accessory item) are designed to allow you to connect multiple rolls, laterals or tees while maintaining electrical continuity.
- The ink used to print the material is permanent and cannot be removed by normal handling or upon burial.
- The material and ink are chemically inert and will not degrade when exposed to acids, alkalis and other destructive substances commonly found in soil.
- Sentry Line Reinforced Detectable is available in the colors orange and red. Other colors may be available upon request.

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