

Part # **Technical Data Sheet**
PTP341000, PTP641000, PTP361000, PTP661000

Scope

This specification covers the material, physical/aesthetic dimensions, and mechanical properties of the non-detectable tape as manufactured by ACP International. Non-detectable tape shall be an underground marking solution to serve as a last line of defense to prevent accidental digging up of cables and pipe.

Non-Detectable Tape

Scope

This specification covers the material, physical/aesthetic dimensions, and mechanical properties of the non-detectable tape as manufactured by ACP International.

Technical Description, Design, and Materials

ACP International non-detectable tape shall be made from single ply, low density polyethylene film, printed with black text to identify the type of buried cable or pipe directly underneath it.

Non-detectable tape shall be an underground marking solution to serve as a last line of defense to prevent accidental digging up of cables and pipe. It shall be specially treated so as to not degrade or fade upon exposure to alkalis, acids, or any other destructive elements under ground.

Non-detectable tape shall have a background color that matches the APWA color code system:

- Red - Electrical/Power Line/Cables
- Blue - Water Lines/Potable Water
- Orange - Telephone/Communication/Alarms
- White - General Construction/Proposed Excavation
- Green - Sewer Lines/Drain Lines
- Yellow - Gas/Oil/Petroleum
- Purple - Reclaimed Water/Irrigation & Slurry Lines

The tape shall be printed with black text.



IMPORTANT NOTICE: ACP International trusts that the user of the product has the most accurate knowledge of how the product might be most efficiently or safely utilized in any given application or environment.

ACP International trusts that the technical data and product information shown is based on thorough and accurate testing of the product, but is not liable for any loss or damage to the product (or by any other product, employee, or building from which the product might come into direct or indirect contact) resulting from an intentional or unintentional mishandling of the product.

Engineering Specifications

Non-Detectable Tape

	Drawn By:	Approved By:	Date:
	J.Y. Rollins	M. Prince	08/12/16

Non-Detectable Tape

Dimensions

ACP International non-detectable tape shall be wound in 1000' rolls, available in widths of both 3" and 6", in thicknesses 4 mil and 6 mil. Longer rolls are available upon request.

Part numbers are defined as follows:

Part Nos.	Description
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PTP341000	3" x 1000' x 4 mil
PTP641000	6" x 1000' x 4 mil
PTP361000	3" x 1000' x 6 mil
PTP661000	6" x 1000' x 6 mil

Mechanical Properties

ACP International non-detectable tape, with a thickness of 2 mil, has the following mechanical properties:

Property	Test Method (ASTM)	Typical Values
Elongation	D 88280A	340%
Dart Impact Strength	D 1709	20.2 Grams Per Mil
Tensile Strength	D 882	18.5 Lb @ 3" Wide (1800 psi)
Flexibility	D 671-76	Pliable Hand

Non-detectable tape, with a thickness of 4 mil, has the following mechanical properties:

Property	Test Method (ASTM)	Typical Values
Elongation	D 88280A	750+%
Dart Impact Strength	D 1709	46.2 Grams Per Mil
Tensile Strength	D 882	45.9 Lb @ 3" Wide (4125 psi)
Flexibility	D 671-76	Pliable Hand

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Engineering Specifications

Non-Detectable Tape



Drawn By:

J.Y. Rollins

Approved By:

M. Prince

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Technical Description, Design, and Material

ACP International non-detectable tape shall be made from single ply, low density polyethylene film, printed with black text to identify the type of buried cable or pipe directly underneath it. It shall be specially treated so as to not degrade or fade upon exposure to alkalis, acids, or any other destructive elements under ground.

ACP International non-detectable tape shall be wound in 1000' rolls, available in widths of both 3" and 6", in thicknesses 4 mil and 6 mil. Longer rolls are available upon request. Part numbers are defined as follows:

Part No.:	Description:
PTP341000:	3" x 1000' x 4 mil
PTP641000:	6" x 1000' x 4 mil
PTP361000:	3" x 1000' x 6 mil
PTP661000:	6" x 1000' x 6 mil

Mechanical Properties

ACP International non-detectable tape, with a thickness of 4 mil, has the following mechanical properties:

Property	Test Method (ASTM)	Typical Values
Elongation	D 88280A	750+%
Dart Impact Strength	D 1709	46.2 Grams Per Mil
Tensile Strength	D 882	45.9 Lb @ 3" Wide 99.0 Lb @ 6" Wide (4125 psi)
Flexibility	D 671-76	Pliable Hand

Non-detectable tape with a thickness of 6 mil has the following mechanical properties:

Property	Test Method (ASTM)	Typical Values
Elongation	D 88280A	750+%
Dart Impact Strength	D 1709	70.0 Grams Per Mil
Tensile Strength	D 882	80 Lb @ 3" Wide 160 Lb @ 6" Wide (4166 psi)
Flexibility	D 671-76	Pliable Hand

Special Properties

Build America, Buy America (BABA) Compliance and the American Iron and Steel (AIS) requirements:

The general categories of Utility Infrastructure Marking Products by ACP International, Inc., dba or branded as ACP International, SA-SO, Capital Streetscapes, Concrete Graphics, and Stonehouse Signs, is compliance with BABA. Regarding steel content, this product is made primarily of components other than steel. The total steel content falls under the De Minimus waiver of the AIS requirements.

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Drawn By:
Jim Rollins

Approved By:
ACP Marketing

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