

# Tubiprint Exports

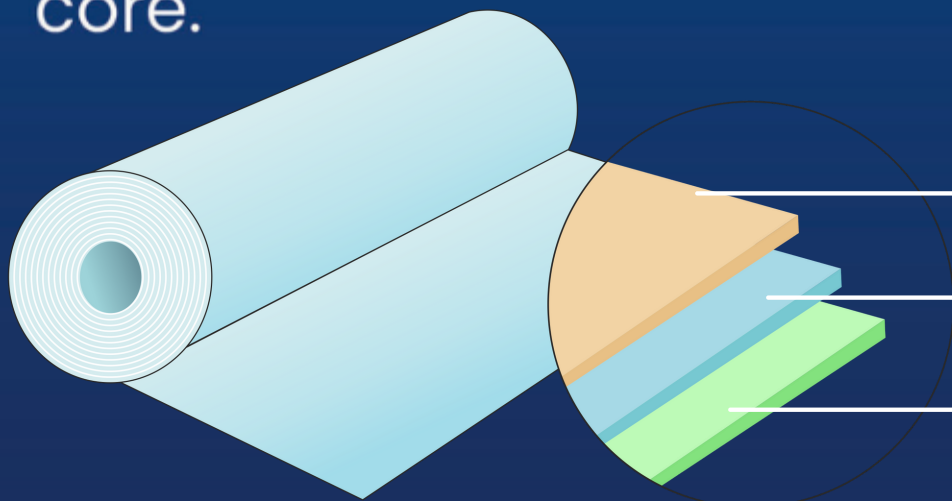
Brand Securing Globally

TUBIPRINT E-FILE  
TECHNICAL DATA SHEET  
MARKER IDENTIFICATION TAPE

## Marker Identification Tape

### Product Description

Marker tapes constitute a low-cost method of incorporating a permanent identification into or on a wire rope/cable core.



25 micron mylar film  
Printed text with high  
bond adhesive lamination  
50 micron mylar film



### Processing

This tape is a composition of two layers of flexible grade pet film, one is of 23 micron thickness with reverse printed texts, specifications & details of the company & the second layer is 50 micron thickness which is laminated with the first layer. The printed text is locked in the middle of both layers.

### Construction

The most common marker tape construction that we offer is a laminated tape. In this instance, the printing is between the two layers of tape, so the information is preserved.

### Uses

Marker tapes constitute a low-cost method of incorporating a permanent identification into or on a wire rope/cable core. Depending on the tape application, we can offer tapes as narrow as 2.0 mm for economy and/or small diameter wire ropes/cables.

### Key Features:

- ✓ The feature of this composite tape is the width in which it comes, that is 2mm, 2.5mm, 3mm, 4mm & 5mm.
- ✓ The tape is of flexible grade & has a good stretching quality with ultimate breaking load.
- ✓ Its tough material provides the wire rope with additional mechanical strength, impact resistance.
- ✓ This composite tape has excellent dielectric resistance, heat resistance & the melting point is up to 190°C.

| TECHNICAL DATA                                  |                    |                      |               |
|---|--------------------|----------------------|---------------|
| PROPERTIES                                      | UNITS              | ASTM # / TEST METHOD | TYPICAL VALUE |
| <b>GENERAL DATA</b>                             |                    |                      |               |
| THICKNESS                                       | MIC                | TPE                  | 75 MICRON     |
| YEILD   | M <sup>2</sup> /KG | TPE                  | 9.5           |
| DENSITY   | GM/CC              | ASTM-D-1505          | 1.4           |
| WATER ABSORBTION (MAX)                          | %                  | ASTM-D-570           | 0.8           |
| SERVICE TEMPERATURE                             | DEG C              | TPE                  | -70 TO 150    |
| OLIGOMER EXTRACTION                             | %                  | TPE                  | NA            |
| <b>MECHANICAL DATA</b>                          |                    |                      |               |
| TENSILE STRENGTH                                |                    |                      |               |
| MD  | KG/CM <sup>2</sup> | ASTM-D-882           | 1900          |
| TD  | KG/CM <sup>2</sup> | ASTM-D-882           | 1900          |
| ELONGATION                                      |                    |                      |               |
| MD  | %                  | ASTM-D-882           | 140           |
| TD  | %                  | ASTM-D-882           | 130           |
| COF - STATIC (ONE SIDE TO OTHER)                | -                  | ASTM-D-1894          | 0.4           |
| <b>OPTICAL DATA</b>                             |                    |                      |               |
| HAZE  | %                  | ASTM-D-1003          | 10.0          |
| <b>THERMAL DATA</b>                             |                    |                      |               |
| SHRINKAGE @ 150 DEG C FOR 30 MINS               | %                  |                      |               |
| MD  | %                  | ASTM-D-1204          | 1.2           |
| TD  | %                  | ASTM-D-1204          | 0.4           |
| SHRINKAGE @ 190 DEG C FOR 5 MINS                |                    |                      |               |
| MD  | %                  | ASTM-D-1204          | NA            |
| TD  | %                  | ASTM-D-1204          | NA            |
| MELTING POINT                                   | DEG C              | DSC                  | 250           |
| <b>COEFFICIENT OF THERMAL EXPANSION BETWEEN</b> |                    |                      |               |
| 20 DEG C  | 1/K (CM/CM DEG C)  |                      | 36 x 10* (MD) |
| 50 DEG C  | 1/K (CM/CM DEG C)  |                      | 36 x 10* (MD) |
| SPECIFIC HEAT @ 25 DEG C                        | CAL/GM DEG C       |                      | NA            |

| CHEMICAL RESISTENCE                      |  |  |             |
|--|--|--|-------------|
| DILUTE ACIDS & ALKALIS                   |  |  | GOOD        |
| CONCENTRATED ALKALIS                     |  |  | POOR        |
| CONCENTRATED HYDROCHLORIC ACID           |  |  | FAIR        |
| CONCENTRATED SULPHURIC ACID              |  |  | POOR        |
| GREASE, OILS & FATS                      |  |  | GOOD        |
| ORGANIC SOLVENTS, ALCOHOL & HYDROCARBONS |  |  | GOOD        |
| KETONES, ESTERS & CLORINATED COMPOUNDS   |  |  | FAIRLY GOOD |
| PHENOLS, CRESOLS & CLORINATED PHENOLS    |  |  | POOR        |

**Ref no. QAD TPEX S/10 - F1/5**

\*MD = MACHINE DIRECTION \* TD = TRANSVERSE DIRECTION

# The inherent surface tension of the untreated side of any Marker Identification Tape is minimum 42 dyne/cm

**STORAGE & HANDLING:**

Marker Identification Tape need to be stocked in a closed warehouse and should not be exposed to direct sunlight or light sources and from humidity. It is recommended to store below 35 degree C in dry place. Our Marker Identification Tape is suitable for use within 36 months from the date of manufacturing only if the material is stored in recommended conditions.

**DISCLAIMER**

It is the responsibility of our customers to determine that their use of our product (s) is safe, lawful & technically suitable in their oriented applications. The values given in the technical data sheet represent typical values based on the best of our knowledge as on date was compiled. The user is solely responsible for the end use of the product and needs to perform their own tests to confirm the product suitability & compatibility in all respects. Tubiprint Exports gives no warrantee or accept liability for any loss and fitness of the product for any specific purpose. Tubiprint Exports reserves the right to change the technical data sheet at any time for enhancing the quality of the products.

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