# DUPONT™ TYCHEM® 6000 TAPE

## TECHNICAL DATA SHEET

CAT I


## PRODUCT INFORMATION

"DuPont™ Tychem® 6000 Tape. Designed for use in conjunction with Category III Tychem®, Tyvek® or ProShield® chemical protective garments, this yellow chemical barrier tape provides additional sealing for gloves, zipper flap, boots, hood and other interfaces to help reduce exposure risks. Features strong adhesion, easy tear by hand and low curling. Suitable for use in a variety of applications including emergency response, chemical spill clean-up, petrochemical industry tasks and maintenance operations."

## ATTRIBUTES

| | |
|---|---|
| **Full Part Number** | TF00990YL00 |
| **Fabric/Materials** | DuPont™ Tychem® 6000 Tape |
| **Design** | Tape |
| **Color** | Yellow |
| **Sizes** | One size |
| **Quantity/Box** | 12 rolls per box. Width 50 mm, length 50 m per roll |

## FEATURES

- Certified according to Regulation (EU) 2016/425.
- PPE Category I.
- Ensures chemical resistance, when properly applied, by maintaining the overlap between Tychem®, Tyvek® or ProShield® chemical protective garments and other PPE
- Typically functions as a connection between gloves and Category III Tychem®, Tyvek® or ProShield® chemical protective garments. It can further be used to tape the hood to the mask, the ankles to the boots and the zipper flap.
- Excellent handling - can be easily torn by hand
- Good adhesion to Tychem®, Tyvek® and ProShield® chemical protective garments
- Low elongation prevents curling after tearing or cutting strips
- Lightweight for ease of use

### SIZETABLE

| PRODUCT SIZE | ARTICLE NUMBER | ADDITIONAL INFO |
|---|---|---|
| 00 | D15583543 | One size |

### PERMEATION DATA DUPONT™ TYCHEM® 6000 TAPE

| HAZARD / CHEMICAL NAME | PHYSICAL STATE | CAS | BT ACT | BT 0.1 | BT 1.0 | EN | SSPR | MDPR | CUM 480 | TIME 150 | ISO |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | Liquid | 67-64-1 | | >480 | >480 | 6 | <0.1 | | 7.5 | >480 | 6 |
| Acetonitrile | Liquid | 75-05-8 | | >480 | >480 | 6 | <0.1 | | 3.8 | >480 | 6 |
| Carbon disulfide | Liquid | 75-15-0 | | 153 | >480 | 6 | | 0.05 | 67 | >480 | 6 |
| Chloro benzene | Liquid | 108-90-7 | | 160 | >480 | 6 | 0.12 | | 29 | >480 | 6 |
| Dichloro methane | Liquid | 75-09-2 | | imm | imm | | | 0.08 | 1696 | | |
| Dimethyl formamide, N,N- | Liquid | 68-12-2 | | 230 | >480 | 6 | | 0.05 | 4 | >480 | 6 |
| Ethyl acetate | Liquid | 141-78-6 | | 14 | >480 | 6 | | 0.05 | 209 | | |
| Hexane, n- | Liquid | 110-54-3 | | >480 | >480 | 6 | <0.1 | | 1.8 | >480 | 6 |
| Hydrofluoric acid (48-51%) | Liquid | 7664-39-3 | >480 | >480 | >480 | 6 | <0.04 | 0.04 | <19.2 | >480 | 6 |
| Methanol | Liquid | 67-56-1 | | >480 | >480 | 6 | <0.1 | | 3 | >480 | 6 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| Potassium hydroxide (45%) | Liquid | 1310-58-3 | >480 | >480 | >480 | 6 | <0.08 | 0.08 | <38.4 | >480 | 6 |
| Sodium hydroxide (50%) | Liquid | 1310-73-2 | | | >480 | 6 | | 0.22 | 6 | >480 | 6 |
| Tetrachloro ethylene, 1,1,2,2- | Liquid | 127-18-4 | | 57 | >480 | 6 | | 0.05 | 68 | >480 | 6 |
| Tetrahydrofuran | Liquid | 109-99-9 | >480 | >480 | >480 | 6 | <0.1 | 0.05 | <5 | >480 | 6 |
| Tetramethyl ammonium hydroxide (25%) | Liquid | 75-59-2 | >480 | >480 | >480 | 6 | <0.07 | 0.07 | <33.6 | >480 | 6 |
| Toluene | Liquid | 108-88-3 | | >480 | >480 | 6 | <0.05 | | <0.05 | | 6 |

BTAct (Actual) Breakthrough time at MDPR [mins] | BT0.1 Normalized breakthrough time at 0.1 µg/cm²/min [mins] |

BT1.0 Normalized breakthrough time at 1.0 µg/cm²/min [mins] | EN Classification according to EN 14325 | SSPR Steady state permeation rate [µg/cm²/min] |

MDPR Minimum detectable permeation rate [µg/cm²/min] | CUM480 Cumulative permeation mass after 480 mins [µg/cm²] |

Time150 Time to reach cumulative permeation mass of 150 µg/cm² [mins] | ISO Classification according to ISO 16602 |

CAS Chemical abstracts service registry number | min Minute | > Larger than | < Smaller than | imm Immediate (< 10 min) | nm Not tested |

sat Saturated solution | N/A Not Applicable | na Not attained | GPR grade General purpose reagent grade | * Based on lowest single value |

8 Actual breakthrough time; normalized breakthrough time is not available | DOT5 Degradation after 5 min | DOT30 Degradation after 30 min |

DOT60 Degradation after 60 min | DOT240 Degradation after 240 min | BT1383 Normalized breakthrough time at 0.1 µg/cm²/min [mins] acc. ASTM F1383 |

**Important Note**

The permeation data published have been generated for DuPont by independent accredited testing laboratories according to the test method applicable at that time (EN ISO 6529 (method A and B), ASTM F739, ASTM F1383, ASTM D6978, EN369, EN 374-3) The data is typically the average of three fabrics samples tested. All chemicals have been tested at an assay of greater than 95 (w/w) % unless otherwise stated. The tests were performed between 20 °C and 27 °C and at environmental pressure unless otherwise stated. A different temperature may have significant influence on the breakthrough time. Permeation typically increases with temperature. Cumulative permeation data have been measured or have been calculated based on minimum detectable permeation rate. Cytostatic drugs testing has been performed at a test temperature of 27°C according to ASTM D6978 or ISO 6529 with the additional requirement of reporting a normalized breakthrough time at 0.01 µg/cm²/min. Chemical warfare agents (Lewisite, Sarin, Soman, Mustard, Tabun and VX Nerve Agent) have been tested according to MIL-STD-282 at 22°C or according to FINABEL 0.7 at 37°C. Permeation data for Tyvek® is applicable to white Tyvek® 500 and Tyvek® 600 only and is not applicable for other Tyvek® styles or colours. Permeation data are usually measured for single chemicals. The permeation characteristics of mixtures can often deviate considerably from the behaviour of the individual chemicals. The permeation data for gloves published have been generated according to ASTM F739 and to ASTM F1383. The degradation data for gloves published have been generated based on a gravimetric method. This degradation testing exposes one side of the glove material to the test chemical for four hours. The percent weight change after exposure is measured at four time intervals: 5, 30, 60 and 240 minutes.

Degradation Ratings:

- E: EXCELLENT (0-10% Weight Change)
- G: GOOD (11-20% Weight Change)
- F: FAIR (21-30% Weight Change)
- P: POOR (31-50% Weight Change)
- NR: NOT RECOMMENDED (Above 50% Weight Change)
- NT: NOT TESTED

Degradation is the physical change in a material after chemical exposure. Typical observable effects may be swelling, wrinkling, deterioration, or delamination. Strength loss may also occur.

Please use the permeation data provided as a part of the risk assessment to assist with the selection of a protective fabric, garment, glove or accessory suitable for your application. Breakthrough time is not the same as safe wear time. Breakthrough times are indicative of the barrier performance, but results can vary between the test methods and laboratories. Breakthrough time alone is insufficient to determine how long a garment may be worn once the garment has been contaminated. Safe user wear time may be longer orshorter than the breakthrough time depending on the permeation behaviour of the substance, the toxicity of the substance, working conditions and the exposure conditions (e.g. temperature, pressure, concentration, physical state).

Latest Update Permeation Data: 10/24/2022

The information provided herein corresponds to our knowledge on the subject at the date of its publication. This information may be subject to revision as new knowledge and experience becomes available. The data provided fall within the normal range of product properties and relate only to the specific material designated; these data may not be valid for such material used in combination with any other materials or additives or in any process, unless expressly indicated otherwise. The data provided should not be used to establish specification limits or used alone as the basis of design; they are not intended to substitute for any testing you may need to conduct to determine for yourself the suitability of a specific material for your particular purposes. Since DuPont cannot anticipate all variations in actual end-use conditions DuPont makes no warranties and assumes no liability in connection with any use of this information. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent rights..

**WARNING**

This tape is not flame resistant and should not be used in areas with heat, open flame, sparks or in potentially flammable environments.

This tape does not protect against ionizing radiation.

The information provided herein corresponds to our knowledge on the subject at the date of its publication. This information may be subject to revision as new knowledge and experience becomes available. The data provided fall within the normal range of product properties and relate only to the specific material designated; these data may not be valid for such material used in combination with any other materials or additives or in any process, unless expressly indicated otherwise. The data provided should not be used to establish specification limits or used alone as the basis of design; they are not intended to substitute for any testing you may need to conduct to determine for yourself the suitability of a specific material for your particular purposes. Since conditions for use are outside the DuPont's control, DUPONT DE NEMOURS, INC. AND ITS AFFILIATES MAKE NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND ASSUMES NO LIABILITY IN CONNECTION WITH ANY USE OF THIS PRODUCT AND INFORMATION. This information is not intended as a license to operate under or a recommendation to infringe any trademark, patent or technical information of DuPont or other persons covering any material or its use.



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