

TECHNICAL DATA SHEET

Doc No – Ab/TDS/UTL-210
Rev No: 09 Date- 05/2024-25

Abdos Labtech Pvt. Ltd.
Parafilm - M

Valid for Catalog No. U30101, U30102

SRN (Single Registration Number): IN-MF-000022272

1. Description/Specification

1.1 Description:

- 1.1.1 Self Sealing Thermoplastic films.
- 1.1.2 For use prevent contamination, evaporation, or spills.
- 1.1.3 Useful in electron microscopy droplet staining and thin film grid coating.
- 1.1.4 It provide non-slip surface on tray and shelves for instruments and containers.
- 1.1.5 Parafilm M is a flexible, thermoplastic, waterproof self-sealing film that holds moisture loss to the minimum and offers secure sealing to the content of tubes, beakers, flasks, petri-dish and vials.
- 1.1.6 It has excellent resistance to air, other gases, alcohol, common acids, and moderately concentrated alkalis.
- 1.1.7 At 21° C (70° F), it stretches 200% and returns partially to its original size at 82° C to 93° C (180° F to 200° F) and softens enough to make an adhesive bond between papers, cloths, and leathers.

1.2 Design:

Film

1.3 Performance Specifications:

- 1.3.1 Stretched up to 200% and clings around irregular shape and surfaces.
- 1.3.2 Resistance up to 48 hours against many polar substance e.g saline solutions, inorganic acids, and alkaline solutions.
- 1.3.3 Temperature Limit -45⁰C to 50 ⁰C

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1.3.4 Permeability characteristic

Gas Permeability (Permits rates to corrected to 750 mm/ Hg Pressure)

Oxygen – 150 cc/ m²/24 Hours (at 22.8 °C, 50% Relative Humidity {R.H})

Carbon dioxide – 400cc/m²/24 hours (at 22.8 °C, 50 % Relative Humidity R.H)

Water Vapor -0.88g/m²/24 Hours (at 37.8 °C, 90 % R.H Vs desiccant)

1.4 Material:

1.4.1 Sealing film is free from plasticizers and consist primarily of poly olefins and Parafilm waxes.

1.5 Color:

Semi Transparent

1.6 Basic Features:

1.6.1 Made up of highly pure Virgin thermoplastic polyethylene.

1.6.2 Temperature range: With stand Temperature up to 50 °C

1.6.3 Autoclavability: No apparent effect in 24 hours with following chemicals

1.6.4 Hydrochloric acid (12 M), Nitric Acid (16 M), Sulfuric acid (18 M), Ammonium Hydrochloride. (28 % NH₃), Sodium Hydroxide (22 %), IPA (99 %)

1.6.5 Ethanol (95 %)- No apparent effect except some face whitening 24 hrs

1.6.6 KMnO₄- No effects- some dark brown coloration after 18 hrs

1.6.7 Iodine Solution (0.1 N)- No effect- brown staining in 18 hrs

1.6.8 Carbon tetrachloride, Chloroform and ethyl ether: dissolve film in contact

1.6.9 Caution: the film becomes soft and sticky about 54-66 °C.

1.6.9.1 **Chemical resistance:** See website (www.abdoslifesciences.com)

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1.6.9.2 Manufactured in Aseptic Environment

1.7 **Intended use:** Widely used in scientific studies of molecular biology, clinical chemistry, biochemistry and any type of scientific laboratory.

1.7 Dimension:

Code	Dimension
U30101	2-inch x 250 Feet
U30102	4-inch x 125 Feet

1.8 Quality control:

Products are manufactured, inspected and found to be in compliance with product & quality specification requirements as documented in ISO 9001:2015 & 13485:2016 Quality Management System. Testing of various characteristics in accordance with the valid specification, inspection reviewed & signed for product release.

Instruction for Use

Storage temp. Max 30°C
Before using the product check crackness, pouch punctured etc.
Check all the information printed on pouches or boxes.
Always wear gloves while handling specimens.

WARNING

DO NOT store strong oxidizing agents.
DO NOT place any plastic labware in a flame.
DO NOT mix any chemicals that may result in a thermic reaction, which can cause product failure.
Consult local fire codes prior to storage of flammable liquids.

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Quality Manager
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