

# Technical Data Sheet

Doc No Ab/TDS/UTL-215

Rev No : 07 Date 02/2022-23

## TECHNICAL DATA SHEET

**Abdos Labtech Pvt. Ltd.**

**Parafilm - M**

**Valid for Catalog No. U30101, U30102**

### **1. Description/Specification**

#### **1.1 Description:**

1.1.1 Self Sealing Thermoplastic film

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 solution, inorganic acids and alkaline solutions.

1.3.3 Temperature Limit -45<sup>0</sup>C to 50 <sup>0</sup>C

1.3.4 Permeability characteristic

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

Oxygen – 150 cc/ m<sup>2</sup>/24 Hours (at 22.8 <sup>0</sup>C, 50% Relative Humidity {R.H})

Carbon dioxide – 400cc/m<sup>2</sup>/24 hours (at 22.8 <sup>0</sup>C, 50 % Relative Humidity R.H)

Water Vapor -0.88g/m<sup>2</sup>/24 Hours (at 37.8 <sup>0</sup>C, 90 % R.H Vs desiccant)

#### **1.4 Material:**



Abdos Labtech Private Limited  
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(An ISO 9001,13485,14001,18385,GMP & CE certified company)  
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1.4.1 Sealing film is free from plasticizers and consist primarily 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 % NH<sub>3</sub>), Sodium Hydroxide (22 %), IPA (99 %)

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

1.6.6 KMnO<sub>4</sub>- No affects- some dark brown coloration after 18 hrs

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

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

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

1.6.9.1 **Chemical resistance:** See website ([www.abdoslifesciences.com](http://www.abdoslifesciences.com))

1.6.9.2 Manufactured in Aseptic Environment

## 1.7 Dimension :

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

## 1.8 Quality control:

Product 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.



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## 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 specimen.

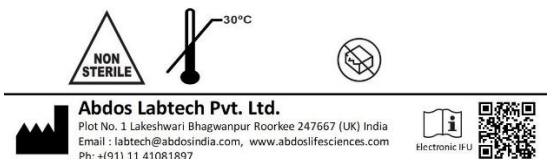
## WARNING

**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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