

# HIGH BARRIER THERMOFORMING FILM (180μ)



**QuenchTek High Barrier PA/EVOH/PE thermoforming films** are designed for demanding food packaging applications requiring **superior oxygen protection** and extended shelf life. Manufactured using high-quality raw materials and **advanced Water-Quench co-extrusion technology**, the films offer **excellent clarity, mechanical strength, and reliable thermoforming performance**.

The EVOH layer provides **outstanding oxygen barrier properties**, while PA ensures **high puncture resistance** & PE enables **strong, consistent sealing**.

## TECHNICAL SPECIFICATIONS

| PHYSICAL PROPERTIES           |    | UNIT                                 | TEST METHOD  | VALUE       |
|-------------------------------|----|--------------------------------------|--------------|-------------|
| Total Thickness               |    | μm                                   | ASTM F 2251  | 180 ± 5%    |
| Avg. GSM                      |    | g/m <sup>2</sup>                     | ASTM E 252   | 183.6 ± 5%  |
| Yield                         |    | m <sup>2</sup> /kg                   | ASTM D 4321  | 5.44        |
| Tensile Strength              | MD | kgf/cm <sup>2</sup>                  | ASTM D 882   | >310        |
|                               | TD | kgf/cm <sup>2</sup>                  | ASTM D 882   | >280        |
| Elongation                    | MD | %                                    | ASTM D 882   | >300        |
|                               | TD | %                                    | ASTM D 882   | >320        |
| Dart Impact Strength @152.4cm |    | g                                    | ASTM D 1709  | >1250       |
| Puncture Resistance           |    | N                                    | DIN EN 14477 | >9.5        |
| COF F/F                       |    | -                                    | ASTM D 1894  | 0.20 ± 0.10 |
| COF F/M                       |    | -                                    | ASTM D 1894  | 0.25 ± 0.10 |
| Surface Tension Outer Side    |    | dyne/cm                              | ASTM D 2578  | >38         |
| OPTICAL PROPERTIES            |    |                                      |              |             |
| Opacity (For Colored Film)    |    | %                                    | ASTM D 1003  | >85         |
| Haze (For Clear Film)         |    | %                                    | ASTM D 1003  | <5.0        |
| Gloss @ 60°                   |    | GU                                   | ASTM D 2457  | >110        |
| THERMAL PROPERTIES            |    |                                      |              |             |
| Seal Strength                 |    | kg/15mm                              | ASTM F 88    | >6.0        |
| Peal Strength                 |    | N/15mm                               | ASTM F 88    | <5.0        |
| BARRIER PROPERTIES            |    |                                      |              |             |
| WVTR                          |    | gm/m <sup>2</sup> /day               | ASTM F 1249  | <2.6        |
| OTR                           |    | cm <sup>3</sup> /m <sup>2</sup> .day | ASTM D 3985  | <1.1        |

## STANDARD PUT - UPS

 **Thickness:** 180µ

 **Composition:** EVOH: 5%, PA: 30%  
PE: 65%

(Tolerance: ± 5%)

**Widths Available :**  
100mm to 1320 mm (+1mm, -0mm)

**\*Different colors available on request.  
(White, Black, Blue Tinted)**



## KEY FEATURES

- Exceptional puncture resistance
- Superior transparency and gloss
- High-speed sealing
- Excellent processability
- Tight seal, even over grease and oils
- Wide processing window
- Deep draw depth
- Up to 25% material savings
- Fully customizable sizes and printing
- Clear and coloured film in stock

## MARKETS/ APPLICATIONS



Fresh meat  
with or without  
bones



Processed  
meat products  
& snacks



Cheese and  
Dairy



Fish &  
Seafood



Pet  
Treats



Bakery Products  
& Pasta



Fruit and  
vegetables



Convenience  
products



Frozen  
Products

## PRDOUCT CERTIFICATIONS



### Applications

Food packaging. We do't use any post-consumer recycled material in our manufacturing process. All the raw material for manufacturing these barrier films meets the requirement of USFDA, EU/10/2011, & FSSAI, thus ensuring food safety at all times.

### Storage & Shelf Life

Store the product away from direct sunlight. It is recommended to store the product at a relative humidity of 50 ± 10% and a temperature of 25 ± 5 °C. Under these specified storage conditions, the shelf life is 12 months from the date of dispatch.

### Disclaimer

The technical information provided by Bagla Group is offered as general guidance only. Although based on internal testing and considered reliable, it does not replace user evaluation. Performance may vary depending on processing conditions and applications, and users should independently verify product suitability for their intended use. Bagla Group assumes no liability arising from the use of this information.

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#### Head Office

- New Delhi

#### Factories

- 3 in Mundra, India
- 1 in Kolkata, India
- 1 in Dadri, India
- 1 in Ciudad del Este, Paraguay
- 1 in Surabaya, Indonesia

#### Domestic Sales Office

- Delhi • Mumbai • Kolkata • Cochin
- Bangalore • Hyderabad • Chennai • Bhopal

#### Key Markets

- USA • Canada • Mexico • Germany
- UK • France • Italy • Spain
- Poland • Brazil • Argentina • Australia

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GROUP Packaging!