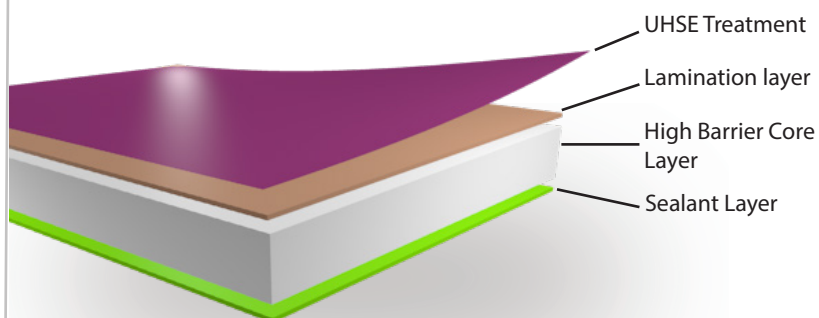


# TORAYFAN<sup>®</sup> CBS

## Applications

- Confections
- Snacks
- Bakery
- Pet food
- Ag/Chem
- Medical



ONE SIDE TREATED, ONE  
SIDE HEAT SEALABLE  
TRANSPARENT BOPP FILM

## Summary

One side treated with Toray's Ultra High Surface Energy (UHSE) and one side heat sealable Bi-Axially Oriented Polypropylene film with excellent moisture barrier.

Designed as the inside sealant web for clear moisture barrier applications. Can also be used as an unsupported web that can be surface printed.

## Technical Data \*

| PROPERTIES                             |    | METHOD     | UNITS                 | TYPICAL VALUES |       |
|--|----|------------|-----------------------|----------------|-------|
| Thickness                              |    | -          | micron                | 18             | 20    |
| Nominal Yield                          |    | -          | m <sup>2</sup> /kg    | 63             | 54    |
| Tensile Strength at Break              | MD | ASTM D882  | MPa                   | 100            | 100   |
|  | TD |            |                       | 300            | 300   |
| Young's Modulus                        | MD | ASTM D882  | MPa                   | 2,400          | 2,400 |
|  | TD |            |                       | 4,300          | 4,300 |
| Elongation at Break                    | MD | ASTM D882  | %                     | 200            | 200   |
|  | TD |            |                       | 60             | 60    |
| Heat Shrinkage (140°C for 15 minutes)  | MD | ASTM D1204 | %                     | 8              | 8     |
|  | TD |            |                       | 5              | 5     |
| Coefficient of Friction (Sealant Side) |    | ASTM D1894 | $\mu_s$               | 0.66           | 0.66  |
|  |    |            | $\mu_d$               | 0.45           | 0.45  |
| Haze (1 sheet)                         |    | ASTM 1003  | %                     | 2              | 3     |
| Wetting Tension                        |    | ASTM D2578 | dyne/cm               | 41             | 41    |
| Heat Seal Strength @ 121°C             |    | 1          | g/25mm                | 430            | 430   |
| Seal Initiation Temp (>200g/25mm)      |    | 1          | °C                    | 91             | 91    |
| MVTR - 38°C, 90% RH                    |    | ASTM F1249 | g/m <sup>2</sup> /day | 3.4            | 3.1   |

1 Sentinel Sealer model 12 ASL, 0.5 sec, 20 psi. UPPER: flat, Teflon™ coated. LOWER: rubber with glass cloth, unheated

**The product described is covered by one or more of the following patents or patents pending:  
US 6844078, EP 1474289.**

### Key Features

- Wide heat seal range in lap/fin/crimp seals
- Improved oil resistance
- Increased puncture resistance
- Increased stiffness

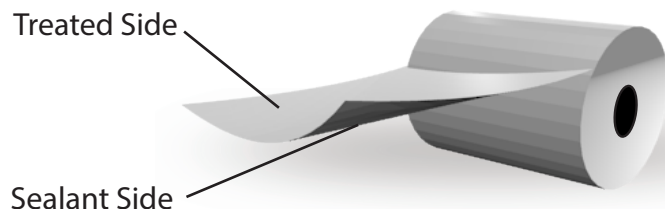
### Similar Products

- CBC
- CBH
- CBLS

### Typical Structures

- F61W/ink/PE or ADH/CBS
- CBC/ink/PE or ADH/CBS - for enhanced MVTR
- PET/PE or ADH/CBS
- Ink/CBS

### Winding Direction



\* These values do not constitute specific binding specifications

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