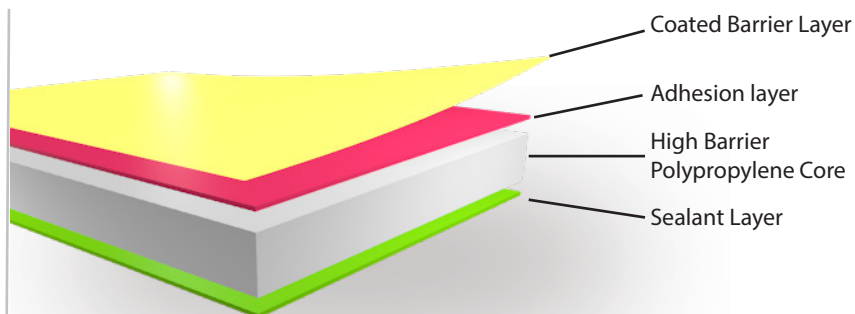


# TORAYFAN CBS3

## Applications

- Confections
- Snacks
- Bakery
- Pet Food
- Ag/chem
- Medical



Torayfan CBS3

TRANSPARENT BARRIER  
COATED, ONE SIDE HEAT  
SEALABLE BOPP FILM

## Summary

One side barrier coated and one side heat sealable Bi-Axially Oriented Polypropylene film with excellent moisture and oxygen barrier. Designed as the inside sealant web for clear barrier applications.

## Technical Data \*

PROPERTIES	METHOD	UNITS	TYPICAL VALUES	
Thickness	-	0.00001"	70	80
Nominal Yield	-	in <sup>2</sup> /lb	44,000	38,300
Tensile Strength at Break	MD	ASTM D882	lb/in <sup>2</sup>	21,500
	TD			21,500
Young's Modulus	MD	ASTM D882	lb/in <sup>2</sup>	350,000
	TD			350,000
Elongation at Break	MD	ASTM D882	%	200
	TD			200
Heat Shrinkage (284°F for 15 minutes)	MD	ASTM D1204	%	8
	TD			8
Coefficient of Friction (Sealant Side)	ASTM D1894	$\mu_s$	0.66	0.66
		$\mu_d$	0.45	0.45
Haze (1 sheet)	ASTM 1003	%	2.2	2.5
Wetting Tension - Coated Side	ASTM D2578	dyne/cm	60	60
Heat Seal Strength @ 250°F	1	g/in	430	430
Seal Initiation Temp (>200g/in)	1	°F	195	195
MVTR - 100°F, 90% RH	ASTM F1249	g/100in <sup>2</sup> /day	0.22	0.20
O <sub>2</sub> Barrier - 73°F, 0% RH	ASTM D3985	cc/100in <sup>2</sup> /day	0.06	0.06

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

## Important Notes

- The Ultra Barrier Layer should be primed before extrusion lamination
- The Ultra Barrier Layer is not approved for direct contact with food. The surface must be buried in a lamination or through extrusion coating
- The Ultra Barrier Layer is suitable for solvent-based inks. Water-based inks should be avoided.

**The product described is covered by one or more of the following patents or patents pending:**

**US 6844078, EP 1474289, US 9624020 and EP 14874113.5.**

## Key Features

- Oxygen barrier on par with MOPP
- Alternative to PVdC coated OPP
- Wide heat seal range in lap/fin/crimp seals
- Improved oil resistance
- Increased puncture resistance

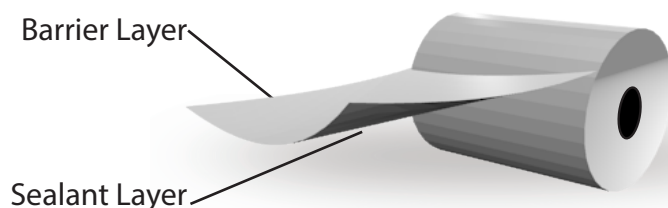
## Similar Products

- CBS2
- CBS

## Typical Structures

- F61W/ink/PE or ADH/CBS3
- PET/PE or ADH/CBS3

## Winding Direction



\* These values do not constitute specific binding specifications

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