

# Transparent High Barrier Film

SiO<sub>x</sub>-BOPP <SPP-HC-1801>

## Structure:

Top coating
SiO <sub>x</sub> deposit
Primer
BOPP substrate 18micron

## Application:

- Retort pouches, packages
- Pet food packaging
- Snacks, bakery, sauce-package
- Deli, pickled, preserved food packaging
- Health food, pharmaceutical package
- Electronic components

## Features:

- Recommend for retorted and boil usage
- Eco-friendly
- Mono-material compatible
- Transparent. Non-metal
- No chlorine gas release
- Excellent barrier properties, as well as weather resistance
- Good aroma retention
- Flexible, with excellent bending resistance
- Microwave safe. No interference with metal detector, RFID IC tags
- Easy to laminate, print, etc during packaging process
- Almost no residue upon complete combustion

Item		Specification	Result※	Test Method
Thickness		18±1 micron	18.3 micron	GB/T 6672-2001
Tensile Strength	MD	≥100Mpa	107Mpa	GB/T 1040.3-2006
	TD	≥200Mpa	225Mpa	
Elongation at break	MD	≤200%	140%	GB/T 1040.3-2006
	TD	≤100%	70%	
Oxygen Transmission Rate OTR (23°C、50%RH)	Before streaming	≤0.5cc/m <sup>2</sup> /day	0.3cc/m <sup>2</sup> /day	ASTM D3985
Water Vapor Transmission Rate WVTR (38°C、90%RH)	Before streaming	≤1g/m <sup>2</sup> /day	0.7g/m <sup>2</sup> /day	ASTM F1249
Optical Transmittance		≥89%	89.7%	GB/T 2410-2008
Haze		≤5%	3.35%	GB/T 2410-2008
Printability				
Surface Tension	Coating side	≥46dyn/cm	50dyn/cm	GB/T 14216-2008
	Non coating side	≥38dyn/cm	40dyn/cm	
Retort				
121°C, 30 minutes		Compatible		

※Figures above are only representative values, and not guaranteed values.

※WVTR, OTR data obtained by Mocon apparatus.

Storage: <40°C, 60%RH, keep cool.

Shelf life: 12 months