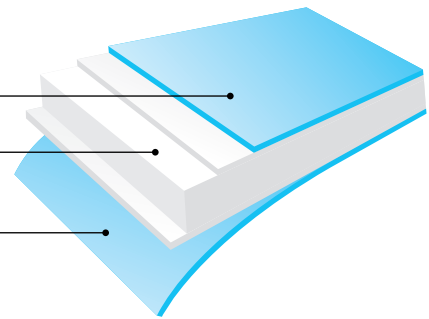


Treated surface

High whiteness layer  
Cavitated core

Untreated slip controlled layer



## Technical Data Sheet

### Bi-Oriented PolyPropylene Film (BOPP)

LLGN

38 microns

White, one-side treated, high yield cavitated film for Roll-Fed Wrap Around Labels

#### Special Features

- Excellent whiteness for outstanding graphics
- Very high yield
- Low and controlled COF for superior machining performance
- Excellent ink adhesion
- Excellent hot melt adhesion
- Excellent web flatness

#### Typical Applications

*Specifically developed for roll-fed wrap around labeling applications. The treated surface is suitable for UV and conventional solvent flexo and rotogravure printing applications.*

Properties	Unit	Typical Values	Method
Thickness	micron	38	Manucor - gravimetric
Unit weight	g/m <sup>2</sup>	22.8	Manucor - gravimetric
Yield	m <sup>2</sup> /kg	43.9	Manucor method
Surface tension	dynes/cm	38	ASTM D 2578
Optical density	-	0.6	Haze Gard Plus
Gloss	%	70	ASTM D 2457 45°
White index (*)	%	82	E313 - CIE
Opacity (*)	%	85	Manucor - BYK
Whiteness (Berger) (*)	%	82	Berger - BYK
COF Dyn F-F (U / U)	-	0.3	ASTM D 1894
COF Dyn F-F (T / T)	-	0.4	ASTM D 1894
Tensile strength at break (MD)	N/mm <sup>2</sup>	90	ASTM D 882
Tensile strength at break (TD)	N/mm <sup>2</sup>	140	ASTM D 882
Elongation at break (MD)	%	135	ASTM D 882
Elongation at break (TD)	%	40	ASTM D 882
Tensile modulus of elasticity (MD)	N/mm <sup>2</sup>	1250	ASTM D 882
Tensile modulus of elasticity (TD)	N/mm <sup>2</sup>	2100	ASTM D 882
Shrinkage (MD)	%	≤5	ASTM D 1204 120°C 5'
Shrinkage (TD)	%	≤3	ASTM D 1204 120°C 5'

Rev. Date 25/01/2018- Please see our website [www.manucor.com](http://www.manucor.com) for the most updated version of this technical data sheet.

(\*)Disclaimer : Typical values describe useful product performance and are not intended for specification purposes.