



Technical Data Sheet

Bi-Oriented PolyPropylene Film (BOPP)

HBWM

New cavitation technology

28-35 microns

High barrier, metallized cavitated white film

Special Features

- Degradation resistant oxygen and moisture barrier
- Ultra low heat sealing range
- Exceptional seal strength and hot tack
- Controlled slip properties
- Excellent metal adhesion

Typical Applications

Designed for confectionery, biscuits, snacks in high-speed HFFS and VFFS applications.

Suitable for use in monoweb or as the innerweb of adhesive or extruded laminations.

Film designed with Manucor's latest barrier and sealant technologies.

The sealant layer is not suitable for cold seal adhesives.

Properties	Unit	Typical Values		Method
Thickness	micron	28	35	Manucor - gravimetric
Unit weight	g/m ²	21	26.3	Manucor - gravimetric
Yield	m ² /kg	47.6	38.1	Manucor method
Optical density	-	3	3	Tobias densitometer
OTR (23°C - 0% RH)	cc/m ² /day	12	12	ASTM D 3985
WVTR (38°C - 90% RH)	g/m ² /day	0.10	0.10	ASTM F 1249
COF Dyn F-F (Untreated / Untreated)	-	0.25	0.25	ASTM D 1894
Tensile strength at break (MD)	N/mm ²	90	90	ASTM D 882
Tensile strength at break (TD)	N/mm ²	190	190	ASTM D 882
Elongation at break (MD)	%	180	180	ASTM D 882
Elongation at break (TD)	%	40	40	ASTM D 882
Tensile modulus of elasticity (MD)	N/mm ²	1550	1550	ASTM D 882
Tensile modulus of elasticity (TD)	N/mm ²	2900	2900	ASTM D 882
Heat seal range (Untreated)	°C	80-140	80-140	Manucor - 3 bar - 1"
Seal strength (Untreated / Untreated)	g/cm	250	250	Manucor - 130°C - 3 bar - 1"
Shrinkage (MD)	%	≤5	≤5	ASTM D 1204 120°C 5'
Shrinkage (TD)	%	≤3	≤3	ASTM D 1204 120°C 5'

Rev. Date 15/06/2018 - Please see our website 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.