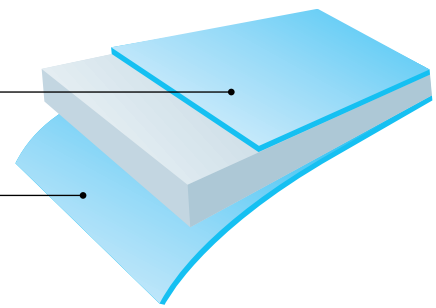


High surface energy layer  
for printing

Slip modified release layer



## Technical Data Sheet

### Bi-Oriented PolyPropylene Film (BOPP)

PGR

15-20  
microns

One-side  
treated, non-  
sealable film  
designed for cold  
seal release  
applications

#### Special Features

- Premium release property with natural and synthetic cold seal adhesives
- Outstanding machinability on the release surface
- Excellent transparency and gloss
- Excellent printability
- Excellent lamination bond strength

#### Typical Applications

*Designed as the outer web of laminations for cold seal applications.*

*Provides excellent cold seal release performance with wide range of cold seal adhesives.*

*The untreated release surface is not suitable for water-based inkjet code-dating or inline retreatment.*

Properties	Unit	Typical Values		Method
Thickness	micron	15	20	Manucor - gravimetric
Unit weight	g/m <sup>2</sup>	13.6	18.2	Manucor - gravimetric
Yield	m <sup>2</sup> /kg	73.6	54.9	Manucor method
Surface tension	dynes/cm	38	38	ASTM D 2578
Haze	%	1.8	2	ASTM D 1003
Gloss	%	90	90	ASTM D 2457 45°
COF Dyn F-F (U / U)	-	0.2	0.2	ASTM D 1894
Tensile strength at break (MD)	N/mm <sup>2</sup>	150	150	ASTM D 882
Tensile strength at break (TD)	N/mm <sup>2</sup>	300	300	ASTM D 882
Elongation at break (MD)	%	170	170	ASTM D 882
Elongation at break (TD)	%	50	50	ASTM D 882
Tensile modulus of elasticity (MD)	N/mm <sup>2</sup>	2200	2200	ASTM D 882
Tensile modulus of elasticity (TD)	N/mm <sup>2</sup>	4000	4000	ASTM D 882
Shrinkage (MD)	%	≤5	≤5	ASTM D 1204 120°C 5'
Shrinkage (TD)	%	≤3	≤3	ASTM D 1204 120°C 5'

Rev. Date 24/01/2018- 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.