

MB100 film

Provides improved heat resistance with thin OPP outer web in applications where PET needs to be removed to achieve mono-PP laminate composition for improved recyclability

Features

- Improved heat resistant OPP design with low shrink in sealed areas to avoid or minimize heat distortion
- Non heat sealable design compatible with some PET replacement needs (eg. sachets and Stand Up Pouches)
- Very high modulus to help balance pack stiffness, packaging performance and ease of conversion
- High clarity and gloss required to replace PET
- Stable and consistent slip properties for outside of packs
- Very low unit weight or high surface yields to optimize packaging source reduction
- Ideal reverse printed web with good print register such as for rotogravure printing



Benefits

BICOR™ MB100 clear OPP film delivers outstanding balance of properties for substitution of thin PET films as outer web of PP or PO laminates that require improved resistance to heat distortion than with standard OPP films

PROTECTION

- High modulus provides outstanding OPP mechanical properties
- Improved WVTR compared to thin PET outer webs

PERFORMANCE

- Improved packaging performance over traditional OPP films in terms of heat resistance and heat distortion in sealed areas
- Good print register in multi station rotogravure printing operations

PROMOTION

- High gloss and transparency to help maintain PET look
- Improved heat resistance minimizes heat distortion when combined with low seal initiation temperature films

PLANET

- Very thin OPP to help lightweight packaging when substituting thin PET outer webs
- Mono-PP film composition to be laminated with PP sealants to design recyclable mono-material laminates for improved recyclability of flexibles

MB100 film

Bicor™ MB100 biaxially oriented Polypropylene (OPP) film features Jindal Film's proprietary manufacturing process to make very thin films with unique properties. MB100 delivers very high Modulus, excellent optics and much lower shrinkage properties than traditional OPP produced by tenter frame. High Modulus provides low elongation and allows efficient rotogravure printing by maintaining the print register as well as thicker OPP or PET films. MB100 helps broaden the heat seal operating window with less visual distortion in heat seal areas and better heat transfer than standard OPP films. It can help in applications using PET or paper when low SIT PE films cannot be used, to achieve PP mono-material composition.

KEY PROPERTY	20OPP	12MB100	12PET	Units
Thickness	20	12	12	µm
Unit weight	18.2 (110%)	10.9 (65%)	16.8 (100%)	g/m²
MD Modulus	2000	2700	4000	MPa
TD Modulus	3500	5200	4400	
MD shrink (135°C; 7 mins)	-5	-3%	NA	%
TD shrink (135°C; 7 mins)	-4%	-0.5%		

MB100 can be used as the printed outer web in lamination either in:

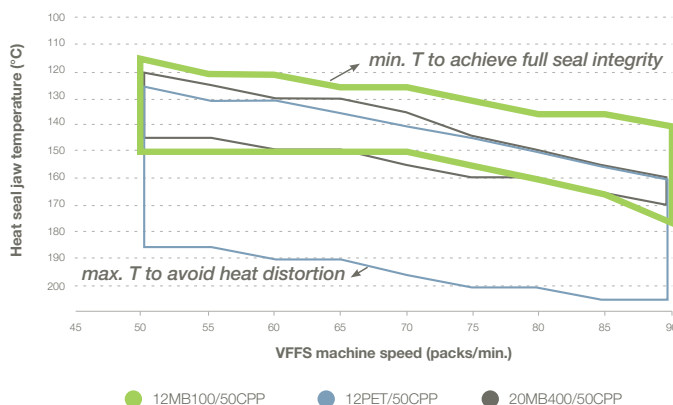
- 2-ply with a heat sealable OPP (e.g. Bicor MB344US) or cast PP
- 3-ply lamination to a barrier OPP (e.g. Metallyte MM883 or Alox-Lyte AO893) and a sealable PP film (cast or OPP).

MB100 can be used in applications to replace PET as outer webs which can include:

- HFFS formats for high speed machines or demanding seal integrity applications
- VFFS formats where PET is often used to deliver more heat to the inner sealant web
- Multi-lane stick packs or sachets formats where thin laminates are often used to be cost effective.

VFFS HEAT SEAL OPERATING WINDOW ASSESSEMENT

Improved heat seal operating window with MB100 compared to standard OPP films



Jindal Films data



Contact your Jindal Films representative for more information

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