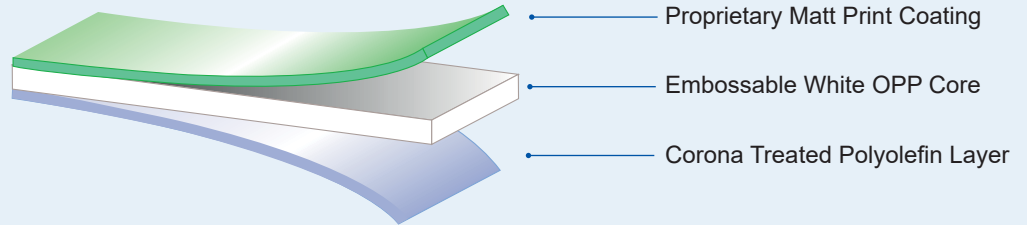


# Rayoface™ mBoss

## Technical Data Sheet

**mBoss - Matt, Top Coated**  
White BOPP for premium textured embossable label applications.

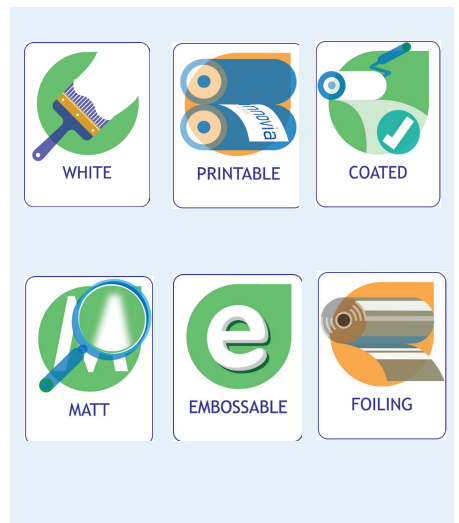


### Features

- Brand Enhancement
- Paper-like surface finish
- Long lasting tactile features
  - Emboss/Deboss
  - Sculptured Emboss
  - Nano Emboss
  - Security Emboss
- High opacity - even when wet
- Water resistance and dimensional stability
- High stiffness and thickness for a premium feel

### Printability

**Rayoface™ mBoss130(510)** has a proprietary paper-like coating and can be printed with a wide range of traditional and narrow-web ink systems. Hot and cold foiling give excellent metallic effects. Flat-bed emboss and high build screen processes offer the best results, creating robust tactile features to enhance branding. Wide compatibility across a range of matt, textured or gloss varnishes allows further decoration opportunities.



### Conversion

The balanced biaxial orientation of Rayoface™ mBoss results in high efficiency web processing through lamination and printing processes. Superior die-cutting performance offers complex shapes, enhanced label edge and prolonged die-life. High machine direction stiffness gives excellent matrix stripping and superior high speed label dispensing.

### Technical Properties (Typical Values)

Property	Test Method	Test Conditions	Units	mBoss
Thickness	Innovia Films test		micron	130
			gauge	510
Yield	Innovia Films test		m <sup>2</sup> /kg	8.3
			in <sup>2</sup> /lb	5800
			g/m <sup>2</sup>	120
Optical: Opacity	Innovia Films test		%	91
Tensile strength	ASTM D 882	Strain rate 50%/min	MN/m <sup>2</sup>	MD: 105
				TD: 95
Elongation at break	ASTM D 882	Strain rate 50%/min	%	MD: 75
				TD: 85
Elasticity modulus (1% secant)	ASTM D 882	Strain rate 10%/min	MN/m <sup>2</sup>	MD: 2100
				TD: 1900
Dimensional stability	Innovia Films test	60 secs at 130°C (265°F)	%	MD: 3.0
				TD: 0.5

MD Machine Direction TD Transverse Direction

All properties are tested under standard laboratory conditions: 23 ± 2°C, 50 ± 5% RH.(73 ± 4F, 50 ± 5% RH), unless otherwise stated. Where relevant, tests are based on international testing standards.

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### Reel Specifications

#### Nominal Reel Diameters

Film	Core Size/(mm)	Approx Outside Dia/(mm)	Length/(metres)
mBoss130	153	945	5000

Film	Core Size/(in)	Approx Outside Dia/(in)	Length/(feet)
mBoss510	6	37.2	16400

Alternative reel lengths/core sizes are available subject to negotiation.  
The print coating is available on either the inner or outer surface of Rayoface™ mBoss.

### Film Storage and Handling

Care should be taken to protect reels of film from storage temperatures above 30°C (86°F) and localised sources of heat above 45°C (115°F). The reels should remain in the protective coverings supplied until ready for use on converting machinery. Converted reels, in both master and slit reel form should be similarly protected at all times. Rayoface™ mBoss is suitable for use for 6 months from the date of delivery and stocks should be used in rotation. Films should be allowed to reach operating room temperatures for 24 hours before use. For specific enquiries, please refer to our graphic arts market development department.

### Food Contact

Rayoface™ mBoss does not comply with either EU or US legislation for direct food contact. For specific enquiries, please contact our technical services department.

### Health & Safety Guidelines

For Health & Safety information, please refer to literature reference L190.

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