



## BOPMAR

### 1131 MD / 1132 MD

#### Description

BOPMAR 1131 MD and 1132 MD are developed especially for fat containing foods which packed on rectangular shape like margarine, butter and alike where deadfold property is important. It can also be used for different packaging applications like lidding substrate for containers. Other applications can be found regarding end use. This film can be sheeted to replace paper. Very low density (0,60 g/cm<sup>3</sup>) and high yield values make it economical alternative to replace paper and/or aluminium foil.

Primering onto metal surface for adequate ink adhesion is highly recommended. Please also be informed that we advise to use antistatic additivated inks and/or overlacquer for smooth run at packaging.

#### Properties

- Superior oxygen and water vapor barrier
- Excellent metal adhesion
- Improved grease and oil impermeability
- High yield (more packages per kg)
- Excellent machinability (mechanical strength, cuttability, low COF, good flatness)
- Long term storage capability
- “Buy me” effect
- No cracking at fold
- Excellent printability
- Excellent stiffness and dead fold property

## Technical Features

PROPERTIES	TEST METHOD	UNITS	1131 MD	1132 MD
THICKNESS	ASTM F2251	micron	80	80
		Gauge	320	320
YIELD	ASTM D4321	m <sup>2</sup> /kg	20,8	20,8
		in <sup>2</sup> /Lbs	14.600	14.600
UNIT WEIGHT	ASTM D4321	g/m <sup>2</sup>	48,0	48,0
OXYGEN TRANSMISSION RATE (23°C-0%RH)	ASTM D3985	cc/m <sup>2</sup> /24hrs	50	
		cc/100in <sup>2</sup> /24hrs	3,2	
TENSILE STRENGTH AT BREAK	ASTM D882	MD	N/mm <sup>2</sup>	80
			lb/in <sup>2</sup>	11.600
		TD	N/mm <sup>2</sup>	130
			lb/in <sup>2</sup>	18.900
ELONGATION AT BREAK	ASTM D882	MD	%	110
		TD	%	40
THERMAL SHRINKAGE (120 °C, 5 min, air)	ASTM D1204	MD	%	3
		TD	%	1
COEFFICIENT OF FRICTION	ASTM D1894	Film/Film		0,35
		Film/Metal		0,25
SURFACE TENSION	ASTM D2578	Dyne/cm	Metal Side	36
			Other Side	-
OPTICAL DENSITY	MACBETH TD931	-	3,0	

### Regulatory Status

Our product complies with the applicable EC legislation on packaging involving direct contact with foods except metallized films. Full details are given on the Regulatory Compliance Certificate and can be found on our web site.

Metallization is a special process and aluminium coated surface is very sensitive to environmental conditions. Even though metal surface tension is above 40 dynes after production, it tends to decrease within time influencing by climatic conditions and storage periods. A guarantee of the duration of surface tension of metallized surface can not be given. We recommend to store metallized films in a dry place and at temperatures below 30°C. It is also advised to use metallized films as 'First in, First Out' principle. In-line treatment and/or priming onto metal surface for adequate ink or coating adhesion is strongly recommended. The metallized surface can normally be laminated with most of the substrates. Other properties of the metallized films are guaranteed for 6 months from the date of production.

The information contained in this data sheet is true and accurate according to current state of our knowledge and intended to give general information on our products and their applications. Above values are to be considered as guidelines and not as product specifications. Since the actual conditions of use are beyond our control, users are advised to make their own tests at their specific conditions of laboratory and/or actual use. We suggest our customers to determine final suitability for their specific end uses.

Also be advised that information on this data sheet shall not be construed as an inducement or recommendation to use any process or to manufacture or use any product in conflict with existing, pending or future patents.

**For related spec sheet with tolerance values, please contact our sales departments**