



## MEDGUARD

## NB 3010 EM

### Description

MEDGUARD NB 3010 EM is a transparent, one side heat sealable, non treated multilayer barrier film.

It is specially designed as a web on thermoforming machines for the packaging of medical products to seal to suitable substrates to form an integral pack suitable for sterilisation by ethylene oxide.

Heat sealable layer is modified to have a sealing capability to special coated papers without any fiber pick-up when the pack is opened.

It is also suitable for gamma sterilization. Please contact with our sales departments for more detailed information if required.

### Properties

- Medium barrier property
- Excellent thermoforming capability
- Good mechanical behaviour after thermoforming
- Excellent optics after thermoforming
- Easy peel sealing property to special papers
- No fiber pick-up from paper
- Excellent resistance to chemicals, greases and oils
- The film shelf life is 6 months

## Technical Features

PROPERTIES	TEST METHOD	UNITS	NB 3010 EM			
THICKNESS	ASTM F 2251	micron	70	80	95	120
		Gauge	280	320	380	480
YIELD	ASTM D 4321	m <sup>2</sup> /kg	15,2	13,3	11,2	8,9
		in <sup>2</sup> /Lbs	10.690	9.350	7.870	6.230
UNIT WEIGHT	ASTM D 4321	g/m <sup>2</sup>	65,8	75,2	89,3	112,8
HAZE	ASTM D 1003	%	3,5	3,7	4,0	4,5
GLOSS (45 °)	ASTM D 2457	%	85			
OXYGEN TRANSMISSION RATE (23°C-0%RH)	ASTM D 3985	cc/m <sup>2</sup> /24hrs	125	110	100	75
		cc/100in <sup>2</sup> /24hrs	8,1	7,1	6,5	4,8
WATER VAPOUR TRANSMISSION RATE (38°C-90%RH)	ASTM F 1249	g/m <sup>2</sup> /24hrs	5,5	4,5	3,5	3,0
		g/100in <sup>2</sup> /24hrs	0,35	0,29	0,23	0,19
COEFFICIENT OF FRICTION	ASTM D 1894	Film/Film	0,50			
		Film/Metal	0,25			
SURFACE TENSION	ASTM D 2578	Dyne/cm	Treated Side	-		
			Other Side	-		
DELAMINATION STRENGTH TO SPECIAL PAPER (*) (120 °C, 1 MPa, 1 s)	ASTM F 88	N/15mm	1.5			

Product Identification (Decision 97/129/EC): PP5

### 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.

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

STANDARD ROLL DIMENSIONS			
CORE INNER DIAMETER (ID)	CORE OUTER DIAMETER (OD)	LENGTH TOLERANCE	WIDTH TOLERANCE
76 mm (3 in) & 152 mm (6 in)	530 mm & 790 mm *	± % 10 for all OD's	- 0 & + 1 mm