



## MEDGUARD

## NB 3011 EMH

### Description

MEDGUARD NB 3011EMH is a transparent, one side heat sealable, other side treated, multilayer medium barrier film.

It can be used as single layer and/or lamination base film for different applications. It is suitable for thermoforming, flexible packaging and vacuum packaging applications as top and/or bottom foil.

It extends freshness and provides longer shelf life for food products such as fresh and processed meat, processed cheese, etc.

**\*Non treated version (NB 3010 EMH) is also available.**

### Properties

- Excellent gloss and clarity
- Excellent hot tack and heat seal strength on PE side
- Excellent barrier properties
- Good mechanical behaviour after thermoforming
- Excellent optics after thermoforming
- High toughness and impact resistance
- Excellent resistance to chemicals, greases and oils

## Technical Features

PROPERTIES	TEST METHOD	UNITS	NB 3011 EMH			
			90	150	175	200
THICKNESS	ASTM F 2251	micron	90	150	175	200
		Gauge	360	600	700	800
YIELD	ASTM D 4321	m <sup>2</sup> /kg	11,7	7,0	6,0	5,1
		in <sup>2</sup> /Lbs	8.220	4.930	4.230	3.590
UNIT WEIGHT	ASTM D 4321	g/m <sup>2</sup>	85.5	142,5	166,3	196.0
HAZE	ASTM D 1003	%	4		5	
GLOSS (45 °)	ASTM D 2457	%	90			
OXYGEN TRANSMISSION RATE (23°C-0%RH)	ASTM D 3985	cc/m <sup>2</sup> /24hrs	60	30	15	10
		cc/100in <sup>2</sup> /24hrs	3,9	1,9	1,0	0,6
WATER VAPOUR TRANSMISSION RATE (38°C-90%RH)	ASTM F 1249	g/m <sup>2</sup> /24hrs	4,0	3,0	2,5	2,0
		g/100in <sup>2</sup> /24hrs	0,26	0,19	0,16	0,13
COEFFICIENT OF FRICTION (*)	ASTM D 1894	Film/Film	0,25			
		Film/Metal	0,20			
SURFACE TENSION	ASTM D 2578	Dyne/cm	Treated Side	36		
			Other Side	-		
HEATSEAL RANGE (*)	ASTM F 88	°C	115-160			
		°F	239-320			
HEATSEAL STRENGTH (*) (120 °C, 1 MPa, 1 s)	ASTM F 88	N/15mm	6			

(\*) Nontreated side to itself

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

REV: 01 Date: 22.03.2021