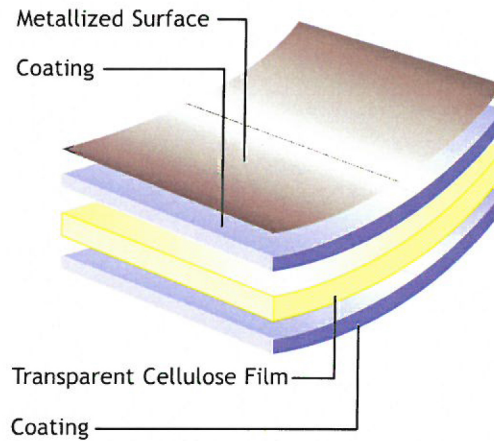


# NatureFlex™ NM

Data

## Features - High Performance Metallized Compostable Film

- Certified biodegradable and compostable film, based on sustainable raw materials
- Superb dead-fold and twist capability
- Highly receptive surfaces for ease of conversion
- Ultra high lustre and sparkle
- Excellent barrier to UV/visible light transmission
- Heat-sealable on non-metallized surface
- Inherent anti-static properties
- Controlled slip characteristics
- Barrier to gases and aromas
- Resistant to oils and greases
- Cold-seal compatible



## Applications

NM film combines excellent optical properties with enhanced barrier and deadfold capabilities. Target applications include twistwrap and flow-wrap of confectionery, bakery and non-food products.

## Technical Properties (Typical Values)

Property	Test Method	Test Conditions	Units	NM 90
Thickness	Innovia Films test		mil	0.92
Yield	Innovia Films test		in <sup>2</sup> /lb	21000
Permeability to: Water vapor	ASTM E96	100° F 90% RH	g/100in <sup>2</sup> . 24 hrs	0.32
Oxygen	ASTM F 1927	75° F 0-5% RH	cc/100in <sup>2</sup> . 24 hrs.bar	0.19
Optical: Optical density	Innovia Films test			2.5
Coefficient of friction (film to film)	ASTM D 1894	Metallized surface		0.4
		Non-metallized surface		0.22
Tensile strength	ASTM D 882		kpsi MD TD	18 10
Elongation at break	ASTM D 882		% MD TD	22 70
Elasticity modulus (1% secant)	ASTM D 882		kpsi MD TD	>435 >220
Seal strength	Innovia Films test	275° F; 0.5 secs 10 psi	g(f)/in	300

All properties are tested under standard laboratory conditions: 75°F; 50± 5% RH, unless otherwise stated.

MD Machine Direction TD Transverse Direction

# NatureFlex™ NM \_\_\_\_\_ Data

## Roll Specifications

### Nominal Roll Diameters

Film	Length/(feet)			
	5250	10500	21000	31500
Outside Diameter for 3in Core	9 <sup>1</sup> / <sub>2</sub> in	13in	17 <sup>1</sup> / <sub>2</sub> in	ns
Outside Diameter for 6in Core	ns	14in	18 <sup>1</sup> / <sub>2</sub> in	22 <sup>1</sup> / <sub>2</sub> in

ns = non-standard

Other roll lengths are available subject to negotiation.

NatureFlex NM is available with the metallized surface wound facing either the inside or the outside of the roll. The metallized surface is identified by the code:

- I - for inside
- O - for outside

## Compostability



NatureFlex NM film is certified to the Industrial Composting norms, ASTM D6400 and EN13432, and to OK Compost's Home Composting Standard.



## Film Storage

To maintain the high quality of this product during storage it is recommended that NatureFlex NM should be stored in its original wrapping away from any source of local heating or direct sunlight.

Recommended conditions of storage are:

Temperature: 60-75°F

Relative Humidity: 35-55%

NatureFlex NM is suitable for use for 4 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.

## Food Contact

The non-metallized surface of NatureFlex NM is suitable for most applications involving direct contact with foodstuffs. The metallized surface should not come into direct contact with foodstuffs. For specific inquiries, please refer to literature reference N120 or contact our Technical Services Department.

## Health & Safety Guidelines

For Health and Safety information, please refer to literature reference N190.



[www.innoviafilms.com](http://www.innoviafilms.com)  
 email: [filmsinfo@innoviafilms.com](mailto:filmsinfo@innoviafilms.com)  
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## Sales Offices

Americas (USA)	Tel +1 877 822 3456
Europe (UK)	Tel +44 (0)16973 42281
Asia-Pacific (Aus)	Tel +61 3 9303 0600

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