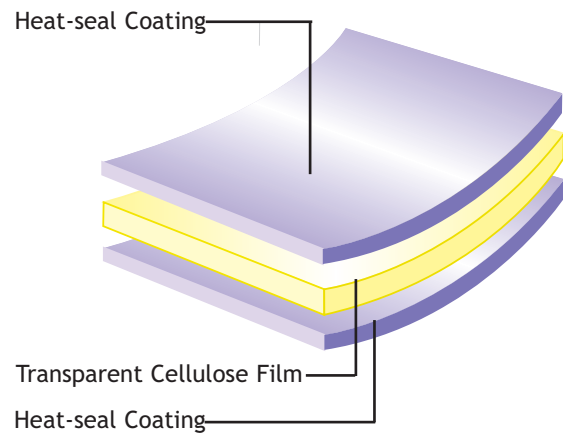


NatureFlex™ NVR

Data

Features - Transparent Heat-sealable Compostable Film

- Based on renewable raw materials
- Certified as compostable in both industrial and home composting environments, also suitable for anaerobic digestion
- Intermediate moisture barrier
- Heat-sealable on both sides
- Formulated for enhanced print and conversion receptivity
- Excellent transparency and gloss
- Superb dead-fold properties
- Inherent anti-static properties
- Controlled slip characteristics
- Good barrier to gases and aromas
- Resistant to oils and greases



Applications

NVR has been specifically formulated to offer enhanced print and conversion receptivity with an intermediate moisture barrier and heat-sealability on both sides. Target applications include pasta, pulses and rice, confectionery and bakery.

Technical Properties (Typical Values)

Property	Test Basis	Test Conditions	Units	NVR		
				23μ	30μ	45μ
Thickness	Innovia Films test		micron	23.3	29.9	45.0
Yield	Innovia Films test		m ² /kg g/m ²	29.9 33.5	23.3 43.0	15.5 64.5
Permeability to Water vapour	ASTM E96	23 °C 85% RH	g/m ² .24 hrs	30 30 120		
		25 °C 75% RH				
		38 °C 90% RH				
Oxygen	ASTM F 1927	23 °C 0% RH 23 °C 50% RH	cc/m ² .24 hrs	1.0 10		
Optical: Gloss	ASTM D 2457	45°	units	100		
Haze (wide angle)	ASTM D 1003	2.5°	%	5.0		
Coefficient of friction (film to film)	ASTM D 1894	Static Dynamic		0.25 0.20		
Tensile strength	ASTM D 882		MN/m ² MD TD	125 70		
Elongation at break	ASTM D 882		% MD TD	22 70		
Elasticity modulus (1% secant)	ASTM D 882		MN/m ² MD TD	>3000 >1500		
Sealing range	Innovia Films test	0.5 secs; 69 kN/m ²	°C	80-200		
Seal strength	Innovia Films test	135 °C; 0.5 secs; 69 kN/m ²	g(f)/25mm	400		

All properties are tested under standard laboratory conditions: 23± 2°C; 50±5% RH, unless otherwise stated.
 MD Machine Direction TD Transverse Direction

Reel Specifications

Nominal Reel Diameters

Film	Length/(metres)			
	1600	3200	6400	9600
23NVR	1600	3200	6400	9600
30NVR	1250	2500	5000	7500
45NVR	850	1700	3400	5100
Outside Diameter for 77mm Core	240mm	330mm	450mm	ns
Outside Diameter for 153mm Core	ns	355mm	475mm	570mm

ns = non-standard

Other reel lengths are available subject to negotiation.

Compostability



NatureFlex NVR film is certified to the Industrial Composting norms, EN13432 and ASTM D6400, 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 NVR should be stored in its original wrapping away from any source of local heating or direct sunlight. Recommended conditions of storage are:
 Temperature: 17-23°C
 Relative Humidity: 35-55%
 NatureFlex NVR is suitable for use for 6 months from the date of delivery and stocks should be used in rotation.

Film should be allowed to reach operating room temperatures for 24 hours before use.

Food Contact

NatureFlex NVR complies with the applicable legislation for most ambient applications involving direct contact with foods. Full details are given on the Declaration of Compliance. Customers intending to use NatureFlex NVR in a food contact application should request a copy of this document from Innovia Films. Details of compliance with food contact legislation in other countries are also available upon request.

Health & Safety Guidelines

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



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