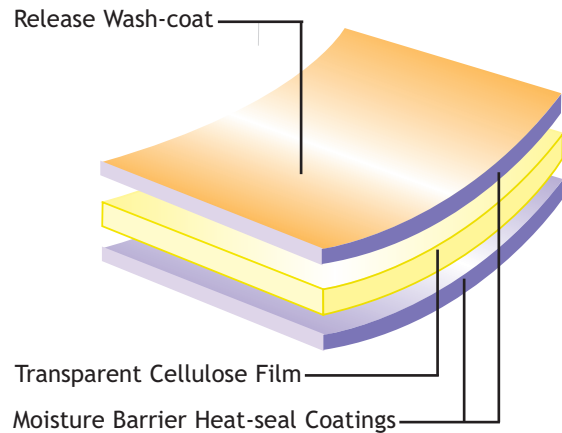


# NatureFlex™ NKR

Data

## Features - Transparent High Barrier Heat-sealable Compostable Film

- Based on renewable resources
- Certified as compostable in key biodegradation environments (including home and industrial composting)
- Excellent 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
- Excellent barrier to gases and aromas
- Resistant to oils and greases



## Applications

NKR film has been formulated to provide enhanced moisture barrier by the addition of a small amount of PVdC. One surface has an additional wash-coat to enhance heat-seal and jaw release properties. The film maintains good conversion receptivity as well as heat-sealability on both sides. Target applications include twist-wrap, VFFS, overwrap, flow-wrap and bag making for moisture sensitive products. NKR can be used in both standard adhesive and extrusion lamination technologies.

## Technical Properties (Typical Values)

Property	Test Basis	Test Conditions	Units	NKR			
				75	90	120	165
Thickness	Innovia Films test		mil	0.75	0.92	1.18	1.64
Yield	Innovia Films test		in <sup>2</sup> /lb	25500	21000	16400	11700
Permeability to Water vapor Oxygen	ASTM E96	100° F 90% RH	g/100in <sup>2</sup> .24 hrs	0.95			
	ASTM F 1927	75° F 0-5% RH 75° F 50% RH	cc/100in <sup>2</sup> . 24 hrs bar	0.2 0.45			
Optical: Gloss	ASTM D 2457	45°	units	105			
Haze (wide angle)	ASTM D 1003	2.5°	%	4.5			
Coefficient of friction (film to film)	ASTM D 1894	Static Dynamic		0.35 0.30			
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		
Sealing range	Innovia Films test	0.5 secs; 10psi	°F	240-340			
Seal strength	Innovia Films test	275° F; 0.5 secs; 10psi	g(f)/in	250			

All properties are tested under standard laboratory conditions: 75± 4°F; 50±5% RH, unless otherwise stated.  
 MD Machine Direction TD Transverse Direction

## Roll Specifications

### Nominal Roll Diameters

Film	Length/(feet)			
	75	6200	12400	24800
90	5250	10500	21000	31500
120	4100	8200	16400	24600
165	2650	5250	10500	15750
Outside Diameter for 3in Core	9½in	13in	18in	ns
Outside Diameter for 6in Core	ns	14in	18¾in	22½in

ns = non-standard

Other roll lengths are available subject to negotiation.

## Compostability

NatureFlex NKR film is certified to both the Industrial Composting norm, 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 NKR 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 NKR 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 NKR complies with the applicable legislation for most ambient applications involving direct contact with foods.

Full details are given on the food contact certificate. Customers intending to use NatureFlex NKR 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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