

PRODUCT INFORMATION

NATUREFLEX

PRODUCT DESCRIPTION

The incorporation of a minimal amount of PVdC to optimise moisture and gas barrier functionality allows for simpler and lighter packaging to extend and maintain shelf life of the packaged products. The film maintains good conversion receptivity as well as heat-sealability on both sides. Target applications include twist-wrap, VFFS, overwrap, flow-wrap and lamination for moisture sensitive products.

PERFORMANCE FEATURES

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

ENVIRONMENTAL DATA

NatureFlex films are suitable for a range of Organic Recycling methods, as detailed above, and for incineration with energy recovery. However, they are not designed for thermal (melt) recycling methods. Please check for availability of FSCTM certified film.

Measure	Typical value / suitability for use	Validation test method
Biobased carbon content (¹⁴ C)	90%	ASTM D6866
Biomass content (total)	90%	
Carbon footprint (GHG) kgCO₂eq/kg (incl. biogenic)	5.05	Peer reviewed LCA 2010 GaBi software
Industrial compostability	Certified	EN13432, EN14995, ASTM D6400 and ISO17088
Home compostability	Certified	OK Compost Home
Anaerobic digestion	Approved	ISO 15985
Marine biodegradation	Approved	ASTM D6691-09

FILM STORAGE

To maintain the high quality of this product during storage it is recommended that NatureFlex NK 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 NK 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.

TECHNICAL INFORMATION

Property	Test basis	Test conditions	Units	NK			
Thickness			Micron	19.4	23.3	29.9	45.0
Yield			m ² /kg g/m ²	35.7 28.0	29.9 33.5	23.3 43.0	15.5 64.5
Permeability To: Water Vapour Oxygen	ASTM E96 ASTM F 1927	38°C 90% RH 23°C 0% RH 23°C 50% RH	g/m ² .24 hrs cc/m ² .24 hrs	20 1.0 5.0			
Optical: Gloss Haze (Wide Angle)	ASTM D 2457 ASTM D 1003	45° 2.5°	units	105 5.5			
Coefficient Of Friction (Film To Film)	ASTM D 1894	Static Dynamic	%	0.35 0.30			
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	≥1200 ≥600			
Sealing Range		0.5 secs; 69 kN/m ²	°C	115-170			
Seal Strength		135°C; 0.5 secs; 69 kN/m ²	g(f)/25mm	225			