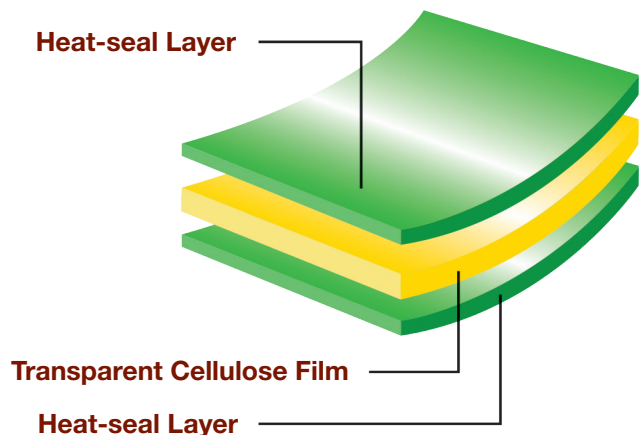


Stella Bernrain introduces NatureFlex™: The Earth-Friendly Packaging Your Brand Can Be Proud Of

NATUREFLEX™ - Transparent Heat-sealable Compostable Film

- ◆ Based on renewable resources
- ◆ Certified as compostable in both industrial and home composting environments, also suitable for anaerobic digestion
- ◆ Heat-sealable on both sides
- ◆ Good transparency and gloss
- ◆ Excellent dead-fold characteristics
- ◆ Good moisture barrier
- ◆ Inherent anti-static properties
- ◆ Excellent barrier to gases and aromas
- ◆ Resistant to oils and greases



Please get in touch to receive further information.

We look forward to assisting you in realizing your project.

Suitable for a range of Organic Recycling methods:

Environmental Data

Measure	Typical Value/ Suitability for use	Validation or Test Method
Biobased carbon content (¹⁴ C)	90%	ASTM D6866
Biomass content (total)	90%	Futamura calculation
Carbon footprint (GHG) kgCO ₂ eq/kg (incl. biogenic)	5.05	Peer reviewed LCA 2010 GaBi software
Industrial compostability	Certified	EN13432, EN14995, ASTM D6400 and ISO 17088
Home compostability	Certified	OK Compost Home
Anaerobic digestion	Approved	ISO 15985
Marine biodegradation	Approved	ASTM D6691-09

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 FSC™ certified film.

Technical Properties (Typical Values)

Property	Test Basis	Test Conditions	Units	NE			
				19μ	23μ	30μ	42μ
Thickness	Futamura Test		Micron	20.1	23.3	29.9	41.7
Yield	Futamura Test		m ² /kg, g/m ²	34.5 29.0	29.9 33.5	23.3 43.0	16.7 60.0
Permeability to: Water vapour	ASTM E96	25°C 75% RH	g/m ² .24 hrs	15			
Oxygen	ASTM F 1927	23°C 0% RH 23°C 50% RH	cc/m ² .24 hrs	1.0 5.0			
Optical: Gloss	ASTM D 2457	45°	units	90			
Haze (wide angle)	ASTM D 1003	2.5°	%	6.0			
Coefficient of friction (film to film)	ASTM D 1894	Dynamic		0.35			
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	Futamura Test	0.5 secs; 69 kN/m ²	°C	80-200			
Seal strength	Futamura 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. Where relevant, tests are based on international testing standards.
MD - Machine Direction TD - Transverse Direction