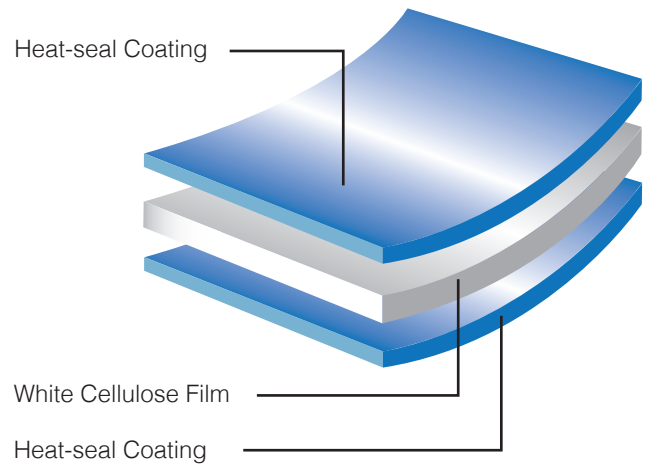


NatureFlex™ NVS White

Data

Features - White, Heat-sealable Compostable Film

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



Applications - Packaging and labels

NatureFlex NVS White has been specifically formulated to offer improved stiffness under chill cabinet conditions and a controlled level of moisture permeability with a heat-sealable conversion-friendly coating on both sides. NVS White is suitable for labels where the complete pack needs to be certified as compostable.

Technical Properties (Typical Values)

Property	Test Basis	Test Conditions	Units	NVS White	
				22μ	42μ
Thickness	Futamura Test		Micron	22.0	42.0
Yield	Futamura Test		m ² /kg g/m ²	29.9 33.5	15.5 64.5
Permeability to: Water vapour	ASTM E96	25°C 75% RH 38°C 90% RH	g/m ² .24 hrs	200 600	
Oxygen		23°C 50% RH	cc/m ² .24 hrs	5	
Gloss	ASTM D 2457	45°	Units	55	
Optical Density	Futamura Test			0.3	
Coefficient of friction (film to film)	ASTM D 1894	Static Dynamic		0.3 0.3	
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	90-200
Seal strength	Futamura Test	135°C; 0.5 secs; 69 kN/m ²	g(f)/25mm	200	

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

NatureFlex™ NVS White

Data

Environmental Data

Measure	Typical Value/ Suitability for use	Validation or Test Method
Biobased carbon content (¹⁴ C)	94-96%	ASTM D6866
Biomass content (total)	88%	Futamura calculation
Carbon footprint kgCO ₂ eq/kg (incl.biogenic)	4.9	Peer reviewed LCA 2019 GaBi software Impact 2002+ (Global warming 500yr - midpoint)
Industrial compostability	Certified	EN13432, EN14995, ASTM D6400 and ISO 17088
Home compostability	Certified	OK Compost Home
Anaerobic digestion	Approved	ISO 15985



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 mechanical recycling methods. Please check for availability of FSC™ certified film.

Reel Specifications

Nominal Reel Diameters

Film	Length/(metres)			
	1600	3200	6400	9600
22µ 42µ	850	1700	3400	5100
Outside diameter for 77mm core	240mm	330mm	450mm	ns
Outside diameter for 153mm core	ns	355mm	475mm	570mm

Other reel lengths are available subject to negotiation.

ns = non-standard.

Food Contact

NatureFlex NVS White is formulated to comply with EU legislation for many room temperature food contact applications. Customers intending to use the film in a food contact application must request the Declaration of Compliance which gives full details. For information on other countries please contact your Futamura Sales Office.

Film Storage

To maintain the high quality of this product during storage it is recommended that NatureFlex NVS White 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 NVS White is suitable for use for 6 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.

Health and Safety Guidelines

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



www.futamuragroup.com
email: info@futamuragroup.com
™Trademark of Futamura Group

Sales Offices

Europe (UK) Tel +44 (0)16973 41212
Americas (USA) Tel +1 770 818 3012
Asia-Pacific (Japan) Tel +81 52 562 1841

Disclaimer: Futamura Chemical Company, or any of its affiliated companies (hereinafter "Futamura") declines any liability with respect to the use made by any third party of the information contained herein. The information contained herein represents Futamura's best knowledge thereon without constituting any express or implied guarantee or warranty of any kind (including, but not limited to, the accuracy, the completeness or relevance of the data set out herein). Futamura is the sole owner or authorised user of the intellectual property rights relating to the information communicated. The information relating to the use of the products is given for information purposes only. No guarantee or warranty is provided that the product is adapted to the client's specific use. The client should perform his own tests to determine the suitability for a particular purpose. The final choice of use of a product remains the sole responsibility of the client.