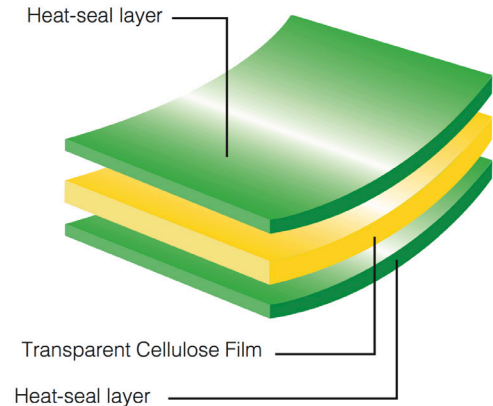


NATUREFLEX™ NE-F

FEATURES – 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 coated side
- 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



APPLICATIONS

NE-F films are suitable for use as a single film for packing on vertical, horizontal, twist-wrap and overwrap machines. They are designed to offer increased moisture barrier for the packaging of more hygroscopic foods.

TECHNICAL PROPERTIES (TYPICAL VALUES)

PROPERTY	TEST BASIS	TEST CONDITIONS	UNITS	NE-F			
				75	90	120	165
THICKNESS	Transcendia test	-	mil	0.79	0.92	1.18	1.64
YIELD	Transcendia test	-	in ² /lb	24250	21000	16400	11750
PERMEABILITY TO:	WATER VAPOR	ASTM E96	77°F 75% RH	g/100in ² .24 hrs			
	OXYGEN	ASTM F 1927	73°F 0% RH	cc/100in ² .24 hrs			
			73°F 50% RH				
OPTICAL:	GLOSS	ASTM D 2457	45°	units			
	HAZE (WIDE ANGLE)	ASTM D 1003	2.5°	%			
COEFFICIENT OF FRICTION (FILM TO FILM)	ASTM D 1894	Dynamic	-	0.35			
TENSILE STRENGTH	ASTM D 882	-	kpsi	MD	18		
				TD	10		
ELONGATION AT BREAK	ASTM D 882	-	%	MD	22		
				TD	70		
ELASTICITY MODULUS (1% SECANT)	ASTM D 882	-	kpsi	MD	≥170		
				TD	≥85		
SEALING RANGE	Transcendia test	0.5 secs; 10 psi	°F	175-390			
SEAL STRENGTH	Transcendia test	275°F; 0.5 secs; 10 psi	g(f)/in	>400			

All information, recommendations and suggestions contained herein, including, without limitations, stated values (collectively the "Information") shall be used only as a guide by Purchaser and not for specification or any other purpose. The Information does not constitute a warranty nor guaranty of any type whatsoever. Purchaser should independently determine the suitability of all material purchased and must confirm adaptability and other characteristics by conducting its own test. Transcendia shall have no liability as a result of any loss, expense, damage, cost or other injury which results from Purchaser's reliance on the Information.

ENVIRONMENTAL DATA

MEASURE	TYPICAL VALUE/ SUITABILITY FOR USE	VALIDATION OR TEST METHOD
Biobased carbon content (¹⁴ C)	90%	ASTM D6866
Biomass content (total)	90%	Transcendia 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™ NE-F 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.

FOOD CONTACT

NatureFlex™ NE-F is formulated to comply with US 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.

HEALTH AND SAFETY GUIDELINES

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

FILM STORAGE

To maintain the high quality of this product during storage it is recommended that NatureFlex™ NE-F 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™ NE-F 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.



The mark of responsible forestry



COMPOSTABLE
IN INDUSTRIAL FACILITIES

Check locally, as these do not exist in many communities. CERT # 890980



Compostable
7H0037

CORPORATE HEADQUARTERS 9201 W. Belmont Avenue | Franklin Park, IL 60131

USA 800.618.5060 | 847.678.1800 main | 847.233.0199 fax

CAN 800.268.4108 | 416.292.6000 main | 416.292.7399 fax

TRANSCENDIA.COM

Top AIB Rated Facilities | ISO: 9001 Certified Facilities

©2020 Transcendia, Inc.