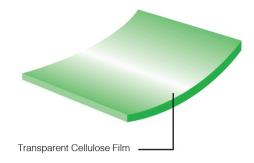




NATUREFLEX™ NP-F

FEATURES - TRANSPARENT NON HEAT-SEALABLE COMPOSTABLE FILMS

- Based on renewable resources
- Certified as compostable in both industrial and home composting environments, also suitable for anaerobic digestion
- Excellent transparency and gloss
- Both sides of the film are equally receptive to inks and adhesives
- Highly permeable to water vapor with excellent barrier to gases and aromas
- Inherent anti-static properties
- Excellent dead-fold characteristics



APPLICATIONS

NP-F films can be used for twistwrap, glued bags and lamination, for products where protection from moisture is not required.

TECHNICAL PROPERTIES (TYPICAL VALUES)

DDODEDTV		TEST	TEST	UNITS		NP-F						
PROPERTY		BASIS	CONDITIONS	UNI	15	80 90		95	110	125	140	165
THICKNESS		Transcendia test	-	mi	I	0.82	0.89	0.96	1.09	1.23	1.37	1.64
YIELD		Transcendia test	-	in²/lb		23400	21650	20100	17600	15600	14050	11750
PERMEABILITY	WATER VAPOR	ASTM E96	100°F 90% RH	g/100in².24 hrs		Not applicable						
TO:	OXYGEN	ASTM F 1927	73°F 50% RH	cc/100in ² .24 hrs		0.65						
OPTICAL:	GLOSS	ASTM D 2457	45°	units		95						
	HAZE (WIDE ANGLE)	ASTM D 1003	2.5°	%		3						
COEFFICIENT OF FRICTION		ASTM D	Static	_		0.50						
(FILM TO FILM)		1894	Dynamic					0.30				
TENSILE STRENGTH		ASTM D	_	kpsi	MD	18						
TENSIEL STRENG		882	-	крзі	TD			10				
ELONGATION AT BREAK		ASTM D	_	%	MD	22						
LLONGATION AT	DNEAN	882	=	70	TD	70						
ELASTICITY MODULUS (1% SECANT)		ASTM D 882	-	knci	MD	≥170						
				kpsi	TD	≥85						

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 (14C)	98%	ASTM D6866			
Biomass content (total)	95%	Transcendia calculation			
Carbon footprint (GHG) kgCO ₂ eq/kg (incl.biogenic)	3.3	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™ NP-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.





The mark of responsible forestry







FOOD CONTACT

NatureFlex™ NP-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 Transcendia 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™ NP-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™ NP-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.

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