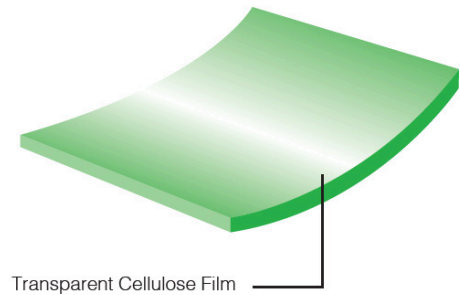


NATUREFLEX™ NP25-F

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
- Good environmental stability



APPLICATIONS

NP25-F films can be used for twist-wrap, glued bags and lamination, for products where protection from moisture is not required. NP25-F films have similar barrier properties to Kraft paper and are therefore excellent films for bag and carton windows.

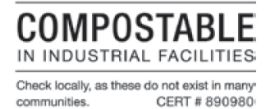
TECHNICAL PROPERTIES (TYPICAL VALUES)

PROPERTY	TEST BASIS	TEST CONDITIONS	UNITS	NP25-F	
				110	140
THICKNESS	Transcendia test	-	mil	1.09	1.37
YIELD	Transcendia test	-	in ² /lb	17600	14000
PERMEABILITY TO:	WATER VAPOR	ASTM E96	100°F 90% RH	g/100in ² .24 hrs	
	OXYGEN	ASTM F 1927	73°F 50% RH	cc/100in ² .24 hrs	
COEFFICIENT OF FRICTION (FILM TO FILM)	ASTM D 1894	Static	-	0.70	
		Dynamic	-	0.50	
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	>290
				TD	>145
SEALING RANGE	Transcendia test	0.5 secs; 10 psi	°F	No seal	
SEAL STRENGTH	Transcendia test	275°F; 0.5 secs; 10 psi	g(f)/in	No seal	

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)	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	ASTM D6400
Home compostability	Not registered	OK compost home
Anaerobic digestion	Approved	ISO 15985
Marine biodegradation	Approved	ASTM D7801-05



NatureFlex™ NKR-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 FSC™ Certified Film.

FOOD CONTACT

NatureFlex™ NP25-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™ NP25-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™ NP25-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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