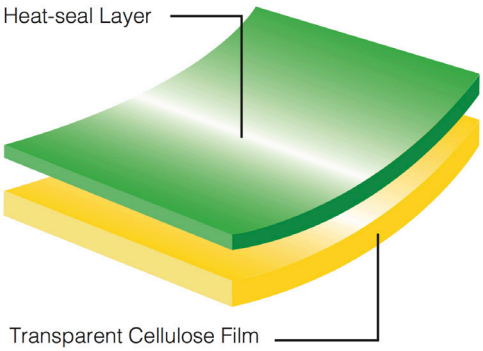
Transcendia
A LEADER IN CUSTOM ENGINEERED MATERIALS

ISO 9001 Certified Company
PERRY JOHNSON REGISTRARS, INC.

NATUREFLEX™ 95 D-NE-F

FEATURES – TRANSPARENT 1-SIDE COATED 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
- Inherent anti-static properties
- Excellent barrier to gases and aromas
- Resistant to oils and greases



APPLICATIONS

95 D-NE-F has been designed for use in laminate structures together with paper or alternative biofilms. Lamination should be made to the uncoated surface.

TECHNICAL PROPERTIES (TYPICAL VALUES)

PROPERTY		TEST BASIS	TEST CONDITIONS	UNITS		95 D-NE-F
THICKNESS		Transcendia test	-	mil		0.96
YIELD		Transcendia test	-	in^2/lb		20100
PERMEABILITY TO:	WATER VAPOR	ASTM E96	77°F 75% RH	$g/100in^2.24$ hrs		1.6
	OXYGEN	ASTM F 1927	73°F 50% RH	$cc/100in^2.24$ hrs		0.32
OPTICAL:	GLOSS	ASTM D 2457	45°	units		90
	HAZE (WIDE ANGLE)	ASTM D 1003	2.5°	%		6
COEFFICIENT OF FRICTION (COATED TO COATED)		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 (COATED SIDE)		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

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ENVIRONMENTAL DATA

MEASURE	TYPICAL VALUE/ SUITABILITY FOR USE	VALIDATION OR TEST METHOD
Biobased carbon content (^{14}C)	97%	ASTM D6866
Biomass content (total)	89%	Transcendia calculation
Carbon footprint (GHG) $kgCO_2eq/kg$ (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™ 95 D-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.

PEFC PEFC/16-33-1610 Promoting Sustainable Forest Management www.pefc.co.uk

FSC™ www.fsc.org FSC™ C119399
The mark of responsible forestry

BPI®
COMPOSTABLE IN INDUSTRIAL FACILITIES
Check locally, as these do not exist in many communities. CERT # 890980

Compostable
7H0037

FOOD CONTACT

NatureFlex™ 95 D-NE-F has been developed for use in amination structures (with lamination to the non-coated surface). The coated surface complies with US legislation or 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™ 95 D-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™ 95 D-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.

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