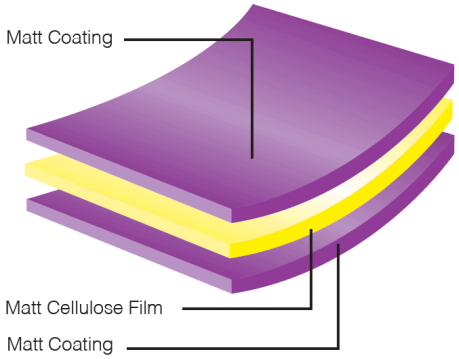
Transcendia
A LEADER IN CUSTOM ENGINEERED MATERIALS

ISO 9001 Certified Company
PERRY JOHNSON REGISTRARS, INC.

NATUREFLEX™ NK-F MATT

FEATURES – MATT COMPOSTABLE FILM

- Natural paper look
- Based on renewable resources
- Certified as compostable in both industrial and home composting environments
- Excellent dead-fold characteristics
- Inherent anti-static properties
- Intermediate barrier to moisture
- Excellent barrier to gases, aromas and mineral oils
- Resistant to oils and greases
- Formulated for print and conversion receptivity



APPLICATIONS

NK-F Matt film is designed for flexible film lamination, as well as extrusion coating, where a natural appearance enhances the message for the resulting pack.

- snacks
- bakery
- confectionery
- dried foods

TECHNICAL PROPERTIES (TYPICAL VALUES)

PROPERTY		TEST BASIS	TEST CONDITIONS	UNITS		NK-F MATT 100
THICKNESS		Transcendia test	-	mil		0.98
YIELD		Transcendia test	-	in^2/lb		21000
PERMEABILITY TO:	WATER VAPOR	ASTM E96	100°F 90% RH	$g/100in^2.24$ hrs		6.5
	OXYGEN	ASTM F 1927	73°F 0% RH	$cc/100in^2.24$ hrs		0.06
			73°F 50% RH			0.32
OPTICAL:	GLOSS	ASTM D 2457	60°	units		25.0
			45°			20.0
			20°			4.5
	HAZE (WIDE ANGLE)	ASTM D 1003	2.5°	%		70
COEFFICIENT OF FRICTION (FILM TO FILM)		ASTM D 1894	Static	-		0.50
			Dynamic			0.30
TENSILE STRENGTH		ASTM D 882	-	kpsi	MD	14
					TD	7
ELONGATION AT BREAK		ASTM D 882	-	%	MD	20
					TD	50
ELASTICITY MODULUS (1% SECANT)		ASTM D 882	-	kpsi	MD	145
					TD	87

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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)	85%	Transcendia calculation
Carbon footprint (GHG) $kgCO_2eq/kg$ (incl.biogenic)	tbc	Peer reviewed LCA 2010 GaBi software
Industrial compostability	Certified	EN13432 and ASTM D6400
Home compostability	Certified	OK compost home
Anaerobic digestion	Not tested	ISO 15985
Marine biodegradation	Not tested	ASTM D6691-09

NatureFlex™ NK-F Matt 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.

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

HOME OK compost VINÇOTTE

OK compost VINÇOTTE

FOOD CONTACT

NatureFlex™ NK-F Matt 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™ NK-F Matt 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™ NK-F Matt is suitable for use for 6 months from the date of delivery and stocks should be used in rotation. Film should be allowed to reach operating room temperatures for 24 hours before use.

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