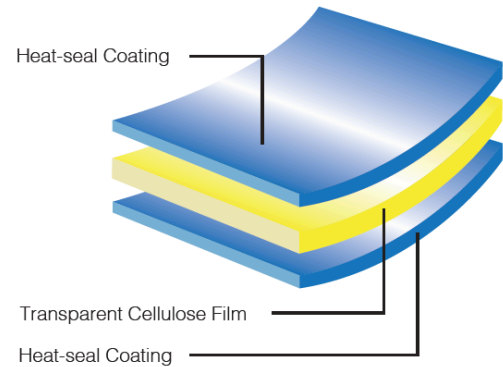


## NATUREFLEX™ NVR-F

### 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
- Intermediate moisture barrier
- Heat sealable on both sides
- Excellent transparency and gloss
- Excellent dead-fold characteristics
- Inherent anti-static properties
- Controlled slip characteristics
- Excellent barrier to gases and aromas
- Resistant to oils and greases



### APPLICATIONS

NVR-F has been specifically formulated to offer enhanced print and conversion receptivity compared to NE-F. NVR-F has an intermediate moisture barrier and good heat-sealability on both sides. Target applications include pasta, pulses and rice, confectionery and bakery.

### TECHNICAL PROPERTIES (TYPICAL VALUES)

| PROPERTY                               | TEST BASIS        | TEST CONDITIONS         | UNITS               | NVR-F                         |       |       |
|--|-------------------|-------------------------|---------------------|-------------------------------|-------|-------|
|  |                   |                         |                     | 90                            | 120   | 180   |
| THICKNESS                              | Transcendia test  | -                       | mil                 | 0.92                          | 1.18  | 1.77  |
| YIELD                                  | Transcendia test  | -                       | in <sup>2</sup> /lb | 21000                         | 16400 | 10900 |
| PERMEABILITY TO:                       | WATER VAPOR       | ASTM E96                | 77°F, 75% RH        | g/100in <sup>2</sup> .24 hrs  |       |       |
|  | OXYGEN            | ASTM F 1927             | 73°F 0% RH          | cc/100in <sup>2</sup> .24 hrs |       |       |
| OPTICAL:                               | GLOSS             | ASTM D 2457             | 45°                 | units                         |       |       |
|  | HAZE (WIDE ANGLE) | ASTM D 1003             | 2.5°                | %                             |       |       |
| COEFFICIENT OF FRICTION (FILM TO FILM) | ASTM D 1894       | Static                  | -                   | 0.25                          |       |       |
|  |                   | Dynamic                 | -                   | 0.25                          |       |       |
| 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/<br>SUITABILITY FOR USE | VALIDATION OR<br>TEST METHOD                  |
|---|---------------------------------------|---|
| Biobased carbon content ( <sup>14</sup> C)                        | 89%                                   | ASTM D6866                                    |
| Biomass content (total)   | 89%                                   | Transcendia calculation                       |
| Carbon footprint (GHG)<br>kgCO <sub>2</sub> eq/kg (incl.biogenic) | 5.05                                  | Peer reviewed LCA 2010<br>GaBi software       |
| Industrial compostability   | Certified                             | EN13432, EN14995, ASTM<br>D6400 and ISO 17088 |
| Home compostability   | Certified                             | OK compost home                               |
| Anaerobic digestion   | Approved                              | ISO 15985                                     |
| Marine biodegradation   | Approved                              | ASTM D6691-09                                 |

NatureFlex™ NVR-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™ NVR-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

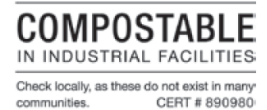
To maintain the high quality of this product during storage it is recommended that NatureFlex™ NVR-F should be stored in its original wrapping away from any source of local heating or direct sunlight.

Recommended conditions of storage are:

Temperature: 60-75°F

Relative Humidity: 35-55%

NatureFlex™ NVR-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.



Compostable  
7H0037

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