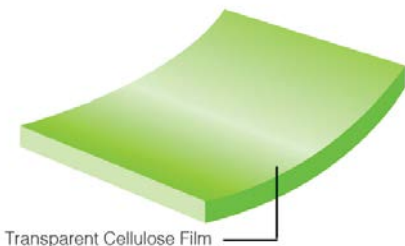


## PLAIN CELLOPHANE TECHNICAL SHEET



Transparent Cellulose Film

- Based on renewable sources, the film is certified as compostable in both industrial and home composting environments and 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 vapour, it is an excellent barrier to gases and aromas.
- Inherent, anti-static properties. Excellent dead-fold characteristics.

### MATERIAL

Transparent, non heat-sealable Compostable, this film films can be used for twist wrap, glued bags and lamination, for products where protection from moisture is not required.

### APPLICATION

Suitable for use for 6 months from date of delivery, stocks to be used in rotation.

### HEALTH & SAFETY

Material compliant with current legislation on food contacts.

Especially developed for food packaging and for meeting specific requirements on health and safety.

### STORAGE

The coils must be kept in the original packaging until use.

It is recommended to maintain the material at a temperature of less than 30°C to minimize its deterioration.

Note: The treatment level can decrease over time.

| Property                                | Test Basis    | Test Conditions           | Units                                  | 23µ            | 23µ          | 23µ          | 23µ          | 23µ          | 23µ          | 23µ          |
|---|---------------|---------------------------|--|----------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Thickness                               | Internal Test |                           | micron                                 | 20.8           | 22.6         | 24.3         | 27.8         | 31.3         | 34.7         | 41.7         |
| Yield                                   | Internal Test |                           | m <sup>2</sup> /kg<br>g/m <sup>2</sup> | 33.3<br>30.0   | 30.8<br>32.5 | 28.6<br>35.0 | 25.0<br>40.0 | 22.2<br>45.0 | 20.0<br>50.0 | 16.7<br>60.0 |
| Permeability to:<br>Water vapour        | ASTM E96      | 38°C 90% RH               | g/m <sup>2</sup> .24 hrs               | Not applicable |              |              |              |              |              |              |
| Oxygen                                  | ASTM F 1927   | 23°C 0% RH<br>23°C 50% RH | cc/m <sup>2</sup> .24 hrs              | 1.0<br>10      |              |              |              |              |              |              |
| Optical: Gloss                          | ASTM D 2457   | 45°                       | units                                  | 95             |              |              |              |              |              |              |
| Haze (wide angle)                       | ASTM D 1003   | 2.5°                      | %                                      | 2.0            |              |              |              |              |              |              |
| Coefficient of friction<br>(out to out) | ASTM D 1894   | Static<br>Dynamic         |  | 0.50<br>0.40   |              |              |              |              |              |              |
| Tensile strength                        | ASTM D 882    |                           | MN/m <sup>2</sup>                      | MD             |              |              | TD           |              |              |              |
|   |               |                           |  | 125            |              |              | 70           |              |              |              |
| Elongation at break                     | ASTM D 882    |                           | %                                      | MD             |              |              | TD           |              |              |              |
|   |               |                           |  | 22             |              |              | 70           |              |              |              |
| Elasticity modulus<br>(1% secant)       | ASTM D 882    |                           | MN/m <sup>2</sup>                      | MD             |              |              | TD           |              |              |              |
|   |               |                           |  | ≥2000          |              |              | ≥600         |              |              |              |

All properties are tested under standard laboratory conditions: 23±2°C; 50±5% RH, unless otherwise stated.  
 Where relevant, tests are based on international testing standards.  
 MD - Machine Direction TD - Transverse Direction

| Measure   | Typical Value/<br>Suitability for use | Validation or Test Method                     |
|---|---------------------------------------|---|
| Biobased carbon content (14C)                                     | 98%                                   | ASTM D6866                                    |
| Biomass content (total)   | 95%                                   | Futamura calculation                          |
| Carbon footprint (GHG)<br>kgCO <sub>2</sub> eq/kg (incl.biogenic) | 3.3                                   | Peer reviewed LCA 2010<br>GaBi software       |
| Industrial compostability   | Certified                             | EN13432, EN14995,<br>ASTM D6400 and ISO 17088 |
| Home compostability   | Certified                             | OK Compost Home                               |
| Anaerobic digestion   | Approved                              | ISO 15085                                     |
| Marine biodegradation   | Approved                              | ASTM D6691-09                                 |

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.