

# Cellophane™ P00

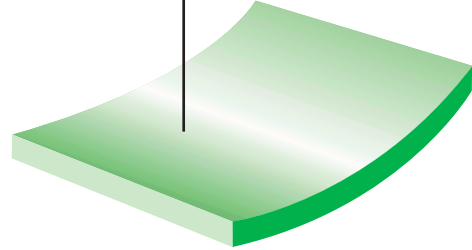
Data

## Features - Non Heat-Sealable Battery Separator Film

Uncoated regenerated cellulose film (RCF) with no softeners incorporated.

- Highly permeable to water vapour
- Excellent transparency and gloss
- Anti-static properties
- Enhanced dimensional stability
- Biodegradable and compostable
- Hydrophilic

Regenerated Cellulose



## Applications

350P00 is an unsoftened cellulose film containing only moisture to impart flexibility and is for use as a separator in batteries. It reduces the initial voltage decay and increases the life (especially for intermittent use) of alkaline batteries. It is also beneficial for nickel cadmium accumulators used in heavy industry and specialised types of Leclanché cell.

## Technical Properties (Typical Values)

| Property                                  | Test Method        | Test Conditions                           | Units                             | P00<br>350     |
|-------------------------------------------|--------------------|-------------------------------------------|-----------------------------------|----------------|
| Thickness                                 | Innovia Films test |                                           | micron                            | 24.4           |
| Yield                                     | Innovia Films test |                                           | m <sup>2</sup> /kg                | 28.6           |
| Permeability to:<br>Water vapour          | ASTM E 96          | 38 °C 90% RH                              | g/m <sup>2</sup> .24 hrs          | Not applicable |
| Oxygen                                    | ASTM F 1927        | 23 °C 0-5% RH                             | cc/m <sup>2</sup> .24 hrs.<br>bar | Not applicable |
| Coefficient of friction<br>(film to film) | ASTM D 1894        | Static<br>Dynamic                         |                                   | 0.50<br>0.40   |
| Tensile strength                          | ASTM D 882         |                                           | MN/m <sup>2</sup> MD<br>TD        | 180<br>115     |
| Elongation at break                       | ASTM D 882         |                                           | % MD<br>TD                        | 18<br>34       |
| Elasticity modulus<br>(1% secant)         | ASTM D 882         |                                           | MN/m <sup>2</sup> MD<br>TD        | >3000<br>>1500 |
| Sealing range                             | Innovia Films test | 0.5 secs;<br>69 kN/m <sup>2</sup>         | °C                                | Not applicable |
| Seal strength                             | Innovia Films test | 135 °C; 0.5 secs;<br>69 kN/m <sup>2</sup> | g(f)/30mm                         | Not applicable |

All properties are tested under standard laboratory conditions: 23± 2°C; 50±5% RH, unless otherwise stated.

MD Machine Direction TD Transverse Direction

## Reel Specifications

### Reel Lengths

| Film   | Length/(metres) |                 |
|--------|-----------------|-----------------|
|        | Standard        | Double Standard |
| 350P00 | 3200            | 6400            |

Other reel lengths are available subject to negotiation.

### Approximate Outside Diameter vs Core Size

| Core Size / (mm) | Approximate Outside Diameter/(mm) |                 |
|------------------|-----------------------------------|-----------------|
|                  | Standard                          | Double Standard |
| 77               | 330                               | non-standard    |
| 120              | non-standard                      | non-standard    |
| 153              | non-standard                      | 450             |

## Film Storage

To maintain the high quality of this product during storage it is recommended that Cellophane P00 should be stored in its original wrapping away from any source of local heating or direct sunlight.

Recommended conditions of storage are:

Temperature: 17-23 °C

Relative Humidity: 35-55%

Cellophane P00 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.

## Food Contact

Cellophane P00 is designed for use as a separator in batteries and is **not** intended for direct food contact applications. For specific enquiries, please contact our Technical Services Department.

## Health & Safety Guidelines

For Health and Safety information, please refer to literature reference A190.



CERTIFICATE NUMBER Q929

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