

# Cellophane™ P

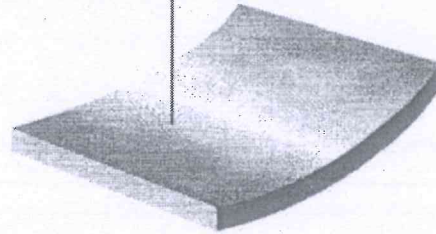
Data

## Features - Non Heat-Sealable Permeable Films

Uncoated regenerated cellulose film (RCF).

- Excellent transparency and gloss
- Highly permeable to water vapour with a good barrier to flavours and aromas
- Anti-static, easy tearing and anti-mist
- Excellent dead-fold characteristics
- Both sides of the film are equally receptive to inks and adhesives
- Biodegradable

Regenerated Cellulose



## Applications

Plain Uncoated Films are suitable for twistwrap and lamination for products where protection from moisture is not required.

P60 Films (300 to 400 versions only) are suitable for most general purpose applications.

P23 Films (300 to 600) have been specifically formulated for general purpose and high speed glued-bag applications.

PC Coloured versions are available in certain grammages. Please refer to the Cellophane colour swatch and colour matrix for further details. In addition, a range of speciality plain films are available for industrial and membrane applications.

## Technical Properties (Typical Values)

Property	Test Method	Test Conditions	Units						
Thickness	Innovia Films test		micron	20.8	22.6	24.3	27.8	34.7	41.7
Yield	Innovia Films test		m <sup>2</sup> /kg g/m <sup>2</sup>	33.3 30.0	30.8 32.5	28.6 35.0	25.0 40.0	20.0 50.0	16.7 60.0
Permeability to: Water vapour Oxygen	ASTM E 96	38°C 90% RH	g/m <sup>2</sup> .24 hrs	Not applicable					
	ASTM F 1927	23°C 0-5% RH	cc/m <sup>2</sup> .24 hrs. bar	3					
Optical: Gloss	ASTM D 2457	45°	units	95					
Haze (wide angle)	ASTM D 1003	2.5°	%	3					
Coefficient of friction (film to film)	ASTM D 1894	Static Dynamic		0.50 0.30					
					125 70				
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 (1% secant)	ASTM D 882		MN/m <sup>2</sup> MD TD	>3000 >1500					
Sealing range	Innovia Films test	0.5 secs; 69 kN/m <sup>2</sup>	°C	Not applicable					
Seal strength	Innovia Films test	135°C; 0.5 secs; 69 kN/m <sup>2</sup>	g(f)/38mm	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



# Cellophane™ P \_\_\_\_\_ Data

## Reel Specifications

### Reel Lengths

Film	Length/(metres)		
	Half Standard	Standard	Double Standard
300P	1700	3400	6800
325P	1600	3200	6400
350P	1400	2800	5600
400P	1300	2600	5200
500P	1000	2000	4000
600P	900	1800	3600

Other reel lengths are available subject to negotiation.

### Approximate Outside Diameter vs Core Size

Core Size / (mm)	Approximate Outside Diameter/(mm)		
	Half Standard	Standard	Double Standard
77	240	330	450
153	non-standard	355	475

### Sheets

We can provide sheets to a range of sizes and shapes upon request.

### Film Storage

To maintain the high quality of these products during storage it is recommended that Cellophane P23 and P60 should be stored in their 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 P23 and P60 are 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 P23 and P60 are suitable for most applications involving direct contact with foodstuffs. Cellophane PC is suitable for applications involving direct food contact provided EC Regulation No. 1935/2004 (Article 3) and EC Directive 93/10/EEC (Article 2 [2]) are satisfied. For specific enquiries, please refer to literature reference A110 or contact our Technical Services Department.

### Health & Safety Guidelines

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



CERTIFICATE NUMBER Q929

www.innoviafilms.com  
 email: filmsinfo@innoviafilms.com  
 ™Trademark of Innovia Films Group

**Sales Offices**  
 Europe (UK) Tel +44 (0)16973 42281  
 Americas (USA) Tel +1 877 822 3456  
 Asia-Pacific (Aus) Tel +61 3 9303 0600

Disclaimer: Innovia Films Ltd or any of its affiliated companies (hereinafter 'Innovia Films') declines any liability with respect to the use made by any third party of the information contained herein. The information contained herein represents Innovia Films' best knowledge thereon without constituting any express or implied guarantee or warranty of any kind (including, but not limited to, the accuracy, the completeness or relevance of the data set out herein). Innovia Films is the sole owner or authorised user of the intellectual property rights relating to the information communicated. The information relating to the use of the products is given for information purposes only. No guarantee or warranty is provided that the product is adapted to the client's specific use. The client should perform his own tests to determine the suitability for a particular purpose. The final choice of use of a product remains the sole responsibility of the client.