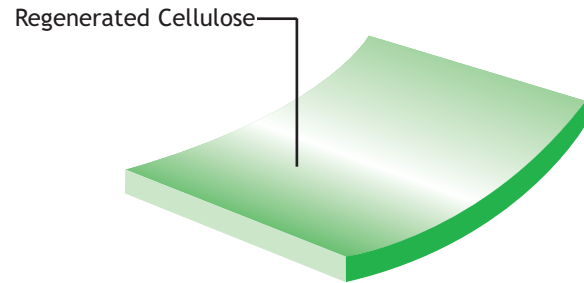


Cellophane™ P Data

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



Applications

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

P23 Films have been specifically formulated for general purpose and high speed glued-bag applications.

P32 Film (325) is a special grade designed for use in higher temperature 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	P Films		
				300	325	400
Thickness	Innovia Films test		micron	20.8	22.6	27.8
Yield	Innovia Films test		m ² /kg g/m ²	33.3 30.0	30.8 32.5	25.0 40.0
Permeability to: Water vapour Oxygen	ASTM E 96	38°C 90% RH	g/m ² .24 hrs	Not applicable		
	ASTM F 1927	23°C 0-5% RH	cc/m ² .24 hrs. bar	3		
Optical: Gloss Haze (wide angle)	ASTM D 2457	45°	units	95		
	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 ² MD TD	125 70		
Elongation at break	ASTM D 882		% MD TD	22 70		
Elasticity modulus (1% secant)	ASTM D 882		MN/m ² MD TD	>3000 >1500		
Sealing range	Innovia Films test	0.5 secs; 69 kN/m ²	°C	Not applicable		
Seal strength	Innovia Films test	135°C; 0.5 secs; 69 kN/m ²	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

Nominal Reel Diameters

Film	Length/ (metres)		
	300P23	1700	3400
325P23/32	1600	3200	6400
400P23	1300	2600	5200
Outside Diameter for 77mm Core	240mm	330mm	450mm
Outside Diameter for 153mm Core	ns	355mm	475mm

ns = non-standard

Other reel lengths are available subject to negotiation.

Sheets

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

Film Storage

To maintain the high quality of this product during storage it is recommended that Cellophane P 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 P 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 P complies with the applicable food contact regulations for most ambient applications involving direct contact with foodstuffs. Cellophane PC films may be used in food contact applications provided EC Regulation No. 1935/2004 (Article 3) and EC Directive 2007/42/EC (Article 3(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.



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