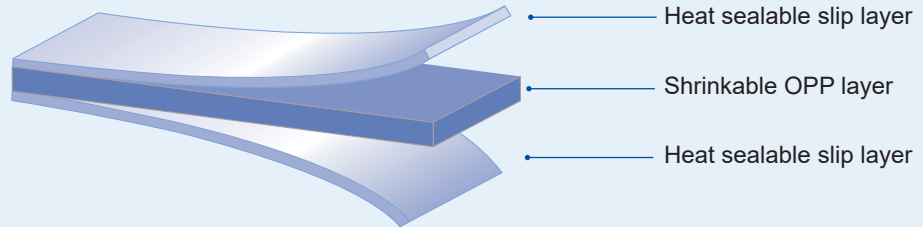


Propafilm™ ZEA

Technical Data Sheet

ZEA - Transparent, Coextruded OPP film, with High Shrink Properties.



Features

- Controlled shrink properties (approximately 12%)
- Two-side heat seal capability
- Anti-blocking and anti-static properties
- Excellent tear strength and puncture resistance
- Oil and grease resistant
- Meets FDA approval for use in food packaging applications

Applications

High speed wrapping of individual cigarette hard packs and cartons.



Technical Properties (Typical Values)

Property	Test Method	Test Conditions	Units	ZEA
Thickness	ASTM D4 321		micron	18
			gauge	70
Basic Weight	ASTM D4 321		g/m ²	16.4
			lbs/ream	10.1
Nominal Density	ASTM D4 321		g/cm ³	0.91
Yield	ASTM D4 321		m ² /kg	61.1
			in ² /lb	42900
Tensile strength	Innovia Films test	200mm/min	N/mm ² MD	150
			N/mm ² TD	300
			lbs/in ² MD	21750
			lbs/in ² TD	43500
Elongation at Break	Innovia Films test	200mm/min	% MD	145
			TD	45
CoF	ASTM D 1894	Static / Dynamic		0.25
MVTR	Innovia Films test	38°C (100°F) 90% RH	g/m ² /day	5.0
			g/100in ² /day	0.32
Heat Seal Strength Back- Front	Innovia Films test	140°C/0.35/0.15 secs 284°F/0.5psi/0.15sec	N/15mm	1.8
			g/in	310
Heat Seal Range Back - Front	Innovia Films test	0.35N (0.5psi)/0.15secs	°C (min/max)	120-140
			°F (min/max)	248-284
Shrinkage	Innovia Films test	5min at 130 °C	% MD	12
			TD	12

MD Machine Direction TD Transverse Direction
 All properties are tested under standard laboratory conditions: 23 ± 2°C, 50 ± 5% RH, (73 ± 4F, 50 ± 5% RH), unless otherwise stated. Where relevant, tests are based on international testing standards.
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Reel Specifications

Nominal Reel Diameters

Film	1x Length (metres)	4/3x Length (metres)
ZEA18	3560	4757

Film	1x Length (feet)	4/3x Length (feet)
ZEA70	11680	15573

All reels are wound to length. Actual OD may vary with thickness and winding density variations.

Outside Diameter	1x	4/3x
For 77mm 3in core	314mm 12.4in	358mm 14.1in

Film Storage and Handling

- This film is largely unaffected by climate influences, but it should be stored at temperatures below 38°C (100°F).
- The reels should be kept in their original wrapping until used. After the reels have been unwrapped, they should be stored upright with suitable protection for the edges.
- Innovia films should be placed in the processing area 24 hours prior to processing to acclimatise.
- Innovia films are largely unaffected by climatic conditions but should not be stored at temperatures above 40°C (104°F). Under suitable storage conditions the film can be stored for a period of six months without any risk of deterioration.

Food Contact

FDA approved for direct food contact. Please contact Technical Services for individual “original” FDA Food Contact statements.

Environmental Concerns

Polypropylene polymers are derived from petroleum and consist only of carbon and hydrogen atoms. Film is coextruded by a clean and simple method without using process chemicals. All waste generated during manufacture is collected and recycled as part of the production process. When efficiently incinerated, only carbon dioxide and water vapor are produced.

Health & Safety Guidelines

MSDS sheets, as well as other product safety documents, are available for our films upon request.

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