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Flexible Thermoformable Films

The Versatile World of Flexible, Thermoformable Films

Thinner, more efficient, more sustainable: Wipak's range of flexible and thermoformable films offer the potential for environmentally-friendly and economically efficient food and medical packaging solutions.

Thanks to new material structures, it will be possible to reduce film thicknesses up to 20 percent. This is due to the use of innovative extrusion technology and special formulations based on high-performance polymers. As a result, we get high-performance films which offer ideal product protection and open up new opportunities for product presentation thanks to their unusual clarity and transparency.

A New Generation of Films: SuperClear and FitForm

Wipak's new production line in Nastola, Finland expands our range of food and medical packaging products, and creates the foundation for a new generation of film, including our 'SuperClear' and 'FitForm' solutions. The new line offers new capabilities for the production of flexible, thermoforming films, with Wipak customers benefiting from solutions that enhance sustainability, efficiency and performance. And, it pays to know that the functionality of these thinner structures is exactly the same as our thicker structures.

Shelf Ready Packaging

	Thickness Range		Description/Properties	Can be Colored	
	From	To		Yes	No
High Standard					
SC PA	50	250	Industry benchmark of the modern, high-performance multilayer film. Contains up to 11 layers. Superior optics and product appearance. Excellent performance on packaging machines thanks to outstanding forming properties (even at low temperatures). Low curling tendency despite asymmetric film structure. Offers 10-25% downgauging potential when compared to conventional PA/PE-films. SC films offer the best sealing performance in the market.		X
SC Plus	50	150	Latest development in Wipak's Coex-film assortment. Premium product appearance thanks to outstanding gloss and transparency. Compared to SC PA, new SC Plus offers even further downgauging potential without compromising in product safety. Unique film structure provides extremely high stiffness/toughness ratio.		X
SC PA Plus	170	300	Unseen optics at such high thickness class. Premium appearance and high mechanical strength for most demanding applications.		X
High Standard + Barrier					
SC XX PA	50	300	Same properties as SC PA, but with EVOH-barrier for extended shelf life.		X
SC XX Plus	50	150	Same properties as SC Plus, but with EVOH-barrier for extended shelf life.		X
High Standard + Moisture Resistance					
SC	80	250	Similar to SC PA but with optimized friction and moisture barrier properties due to PP skin layer. Low curling tendency.	X	
HG TOP/BTM	70/80	100/300	Well-proven alternative for wide range of applications. Top and bottom combination offers robust curl-free package even at high humidity conditions. Glossy appearance.	X	
NICE	210	500	Heavy-duty film with outstanding mechanical properties, combined with excellent forming and optical properties.	X	
High Standard + Moisture Resistance + Barrier					
SC XX	80	250	Same properties as SC, but with EVOH-barrier for extended shelf life.	X	
NICE XX	150	400	Same properties as NICE, but with EVOH-barrier for extended shelf life.	X	
High Standard + Retort					
HG PP	90	300	High stiffness for robust packaging. Heat treatment up to 121°C/1h with PP as surface layer. Good optical and forming properties.		X
SC PA PP CO FLEX PP	65	200	Provides excellent clarity and down-gauging potential. Heat treatment conditions up to 121°C/1h with PA as surface layer.		X
NICE PP	200	400	Heavy gauge applications or robust packaging. Symmetric film structure with very low curling tendency. Heat treatment conditions up to 121°C/1h.	X	
High Standard + Retort + Barrier					
SC XXS PP	120	230	High-performance quality for retort applications (up to 121°C/1h) Excellent optical and forming properties. Haze-free appearance after retort. Extra high barrier for best possible shelf life.	X	

Shelf Ready Case Examples



High Standard

Highly transparent SC and SC PA films, available in gauges from 50 to 300 micron. Excellent product presentation thanks to high gloss. Broad application range in vacuum and MAP packaging solutions, with proven down-gaging potential.



High Standard + Barrier

The ultra-transparent SuperClear scores high with excellent rigidity, stability and back shrink properties. The flexible film tightly covers the product like a second skin and is available as a high barrier solution as well.



High Standard + Retort + Barrier

Highly transparent SuperClear film for sterilised corn cobs. Product protection and long shelf life: up to 12 months; retort conditions: up to 125°C/0,5h.

High Standard + Moisture Resistance



NICE is the alternative to semi-rigid films. Compared to PET/PE laminates, a weight reduction by up to 30 percent can be achieved – depending on the application. Additional features: high barrier, high remaining thicknesses in the corners, low curl.

WINfresh Skin Films: Top Performance at Low Temperatures

Highly transparent, glossy and efficient to process: Wipak's new Skin Films are the latest addition to a wide portfolio of fresh meat packaging products. Available in thicknesses ranging from 75 to 150 μm , the films ideally adapt to the product contours, even at low temperatures.

Depending on the packaging line, WINfresh Skin Films can be processed at temperatures up to 50° Celsius below the temperature

required for standard films. This means that energy costs can be reduced and the products are treated more gently during the packaging process. And, thanks to their unique transparency and glossy look, the films visibly enhance the look and perceived value of the packaged products at the POS.

For the turnkey package, Wipak provides thermoforming bottom films in black, gold and white, with paper and non-woven.

Features



- ▶ Soft peel: easy opening
- ▶ Film tightly fits the product
- ▶ Efficient processing at low temperatures
- ▶ No squeezing of the product
- ▶ Marginal formation of crinkles or bridges
- ▶ Thickness 75, 100, 125, 150 μm
- ▶ Extended shelf life, comparable to MAP due to no oxygen/reliable vacuum
- ▶ Ideal product presentation: great transparency and gloss

Food Service Packaging Case Examples



Standard + Moisture Resistance + Barrier

- Packed product: Cottage Cheese
- ▶ Bottom: Nordform 130 WHITE
 - ▶ Moisture barrier to protect product from drying-out
 - ▶ Perfect thermoformability
 - ▶ Available with high barrier properties



Standard + Moisture Resistance

- Packed product: Cream Cheese
- ▶ Bottom: Nordform 230 Yellow
 - ▶ Challenging cylindrical forming
 - ▶ Excellent forming properties to guarantee even wall thickness uniformity across the whole cylindrical shape
 - ▶ Suitable for all thermoforming application requiring good color coverage due to challenging forming conditions
 - ▶ High color opacity
 - ▶ All PMS colors available upon request
 - ▶ Adjusted CO₂ transmission to enable needed maturing process.



Standard + Cooking/Pasteurization

- ▶ Combitherm for cooking applications up to 110°C/1h
- ▶ Available transparent or colored
- ▶ High puncture resistance
- ▶ Lidding and thermoforming bottom film available as peelable version
- ▶ Temperature-resistant

	Thickness range		Description / Properties	Can be Colored	
	From	To		Yes	No
Standard					
CO	70	90	PA/PE for top film applications and for vacuum pouches.		X
CO Multi MD	70	230	PA/PE with wide thickness range covering most Food Service applications. Suitable as top and/or bottom film.		X
CO Multi Plus	180	320	PA/PE with extra high mechanical properties. Covers the requirements of the most demanding applications.		X
Standard + Barrier					
CO XX	80	320	PA/PE with EVOH-barrier for extended shelf life. Widest thickness range in portfolio. Suitable as top and/or bottom film.		X
MB	60	140	PA/PE with EVOH-barrier for extended shelf life. Suitable as top and/or bottom film. Also available in color. (All PMS colors available on request).	X	
Standard + Moisture Resistance					
NFO	100	250	Symmetrical film structure with excellent mechanical properties. Very good option for applications where colored thermoformable films are needed. Thanks to special film structure, the color pigment is divided into four separate film layers which provides excellent color coverage/constancy during forming. All PMS colors available upon request.	X	
Standard + Moisture Resistance + Barrier					
NFO XX	100	250	Same as NFO, but with EVOH-barrier.	X	
High Standard + Cooking/Pasteurization					
CO KK	80	175	PA/PE based film for cooking applications up to 110°C/1h.	X	
High Standard + Retort + Barrier					
CO XXS	80	320	PA/PE based film structure for high temperature applications up to 115°C/1h. Full barrier protection immediately after retort, providing optimum shelf life.		X



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The Wipak Group develops and manufactures sophisticated packaging solutions for food products, as well as for medical instruments and devices. As part of the Finnish Wihuri Group, Wipak is a leading European supplier of multilayer films – especially high barrier films. Our extensive range of services delivered by our Innovation Center, combined with application support through training and workshops, ensure that with our products we can provide significant added value to our customers.

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