

POST INDUSTRIAL COLLATION SHRINK

A state-of-the-art 40 µm collation shrink film containing 30 % post-industrial recycling material



The 5-layer 40 µm film contains 30 % PIR while meeting all performance requirements of the final packaging solution. Incorporating such a high level of PIR requires a highly versatile 5-layer POD technology that maintains maximum machine output and best film performance.

- Precise thickness and width tolerances
- Perfect film and roll quality
- Minimized film waste in extrusion, printing and packaging

Our partners



The joint development between W&H and Exxon Mobil provides a highly competitive market with

a cutting-edge-solution. The performance polymers combined with a high precision 5-layer film extrusion technology created enough reserves in the film strength, holding force and sealing performance, which enabled the addition of the high percentage of PIR.

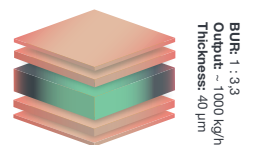
Your advantages

- ✓ Excellent film and roll quality
- ✓ Sustainable solution with 30 % PIR while maintaining the high performance on the packaging lines
- ✓ Maintaining the same critical properties of a film produced with virgin materials

Recipe

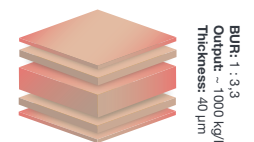
Post Industrial Collation Shrink

Amount [%]	Resins	Layer thickness	Functions
65	mLLDPE	Exceed XP	Toughness; Sealing; Shrinkage
35	LDPE	ExxonMobil LDPE	
80	mLLDPE	Enable	Processability; Shrinkage
20	LDPE	ExxonMobil LDPE	
70	Recycled PE	PIR	Sustainability; Holding Force; Shrinkage
20	HDPE	HTA	
10	LDPE	ExxonMobil LDPE	
80	mLLDPE	Enable	Processability; Shrinkage
20	LDPE	ExxonMobil LDPE	
65	mLLDPE	Exceed XP	Toughness; Sealing; Shrinkage
35	LDPE	ExxonMobil LDPE	



Collation Shrink (Virgin Material)

Amount [%]	Resins	Layer thickness	Functions
65	mLLDPE	Exceed XP	Toughness; Sealing; Shrinkage
35	LDPE	ExxonMobil LDPE	
100	mLLDPE	Enable	Processability
40	LDPE	ExxonMobil LDPE	Shrinkage; Holding Force; Toughness
40	mLLDPE	Enable	
20	mLLDPE	Exceed	
100	mLLDPE	Enable	Shrinkage
65	mLLDPE	Exceed XP	Toughness; Sealing; Shrinkage
35	LDPE	ExxonMobil LDPE	



Learn more about
POST INDUSTRIAL COLLATION SHRINK on VAREX™:
www.wh.group/K2019

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 on the back of the page.



VAREX[™]

The benchmark in blown film extrusion



The VAREX[™] offers unequaled modularity. Tailor-made solutions result in best-in-class flexibility. The LT and HPS screws not only process conventional polyolefins – but also recycled materials and even bio-based plastics.

- Innovative die head and extruder design for perfect melt distributions
- The designable mandrels of the MAXICONE die head concept are a perfect fit for your application
- Our extra long and driven collapsing unit is necessary for an optimal flatness of the film
- Our G3-module (Gravimetric Throughput Control unit) guarantees constant weight per m² of film thanks to automated processing
- ARCTIS cooling ring in combination with W&H internal bubble cooling for high output and perfect film tolerances
- Our PROCONTROL TS is the highly intuitive single point of operation system that integrates all the line operations and enables smart machine learning

Your advantages

- ✓ A universal blown film line with the highest line output
- ✓ Most precise film tolerances and product quality
- ✓ Highest level of process stability and flexibility with the most demanding applications
- ✓ Highest level of machine intelligence and well integrated processes

Technical Data

Line widths	1300 – 3600 mm
Number of film layers	1, 3, 5, 7, 9, 11
Extruder screw diameters	50, 60, 70, 90, 105, 120, 135 mm
Die diameters	160 – 900 mm
Raw Materials	Biomaterials, recycling materials, ...
Winders	FILMATIC [™] S (surface/center/gap winder) FILMATIC [™] T (turret winder) FILMATIC [™] N (surface/center/gap winder)
Special equipment	Side gussets, Water bath, Annealing units, MDO, ...



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