

HIGH PERFORMANCE COLLATION SHRINK

Reducing Material Consumption by using High Performance Polymers





Why High Performance Collation Shrink?

Downgauging collation shrink film to 35 µm while meeting all performance requirements of the final packaging solution is a challenge. Such a thin film requires very small thickness tolerances and consistent layer distribution to achieve the needed performance. W&H's 5-layer polyolefin-dedicated (POD) technology combines consistent film performance with maximum machine output to boost line efficiency.

Instead of downgauging, a performance polymer PE, acting as a booster, can be used to incorporate high amounts of post consumer recycled material while maintaining the original film thickness.

Our partner

ExonMobil

This joint development between ExxonMobil

and W&H provides a highly competitive market with a cutting-edge solution. The performance polyethylene combined with high precision 5-layer film extrusion technology created enough reserves in the film strength, holding force and sealing performance, to add a high percentage of PCR.

Your advantages

- Excellent film and roll quality
- Reduced virgin material consumption
- Maintaining the same critical properties of established collation shrink films

Recipes

High Performance Collation Shrink

Amount	Res	sins	Layer thickness	Functions
70%	mLLDPE	Exceed™ S	3.5 µm	Toughness; Sealability
30%	LDPE	ExxonMobil LDPE		Optics
100%	mLLDPE	Enable™	6.5 µm	Processability Holding Force; Shrinkage
60%	LDPE	ExxonMobil LDPE	15 µm	Shrinkage; Shrink Speed
40%	mLLDPE	Enable™		Holding Force; Shrinkage
100%	mLLDPE	Enable™	6.5 µm	Processability Holding Force; Shrinkage
70%	mLLDPE	Exceed™ S	3.5 µm	Toughness; Sealability
30%	LDPE	ExxonMobil LDPE		Optics



Collation Shrink with 50% PCR

Amount	Res	ins	Layer thickness	Functions
75%	mLLDPE	Exceed™ S	3 µm	Gloss; Mechanical Properties
25%	LDPE	Nexxstar™		Rigidity
60%	PCR	Saica	7 μm	Holding Force
40%	LDPE	Nexxstar™		Rigidity; Shrink
60%	PCR	Saica	20 μm	Holding Force
40%	mLLDPE	Enable™		Stiffness; Shrink
60%	PCR	Saica	7 μm	Holding Force
40%	LDPE	Nexxstar™		Rigidity; Shrink
75%	mLLDPE	Exceed™ S	3 µm	Gloss; Mechanical Properties
25%	LDPE	Nexxstar™		Rigidity







VAREX" WITH FILMATIC" V

Safe and easy - Efficient winding performance for VAREX"



Why VAREX" with FILMATIC"V?

The goal of this new winder generation was to achieve best-in-class winding performance, easy operation and excellent safety standards. The start of the winding process is critical, therefore we improved the surface winding from the beginning to the very end of the roll. To make the highly-complex winding process easy and reliable for all operators, W&H has developed a completely new human machine interface. Among other safety features, new light curtains and laser-supported core alignment promoted meeting the highest international safety standards.

- Single point of operation reduces the risk of operator errors
- Integration of W&H automation and assistence modules
- Improved flexibility due to possible change of the winding direction
- Improved accessibility for easier maintenance
- Option for right angled cut with no foldback

Your advantages

- ✓ FILMATIC" V offers safe and easy winding performance for VAREX" blown film lines
- Highest level of process stability and flexibility with the most demanding applications
- Integration of automation and assistence modules like TURBOSTART and EASY2 Change
- ✓ FILMATIC" V is easily retrofittable

Technical Data VAREX"				
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, PE, PP, EVOH, PA, ionomers,			
Winders	FILMATIC" V (surface/center/gap winder FILMATIC" T (double turret winder) FILMATIC" N (surface/center/gap winder			
Special equipment	Side gussets, water bath, annealing units, MDO,			