

# Constab BR 02017 LL

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Barrier additive for film applications.

Constab's BR 02017 LL barrier masterbatch, suitable for PE-based film applications, is now available for trials.

The masterbatch contains an organic active ingredient which reduces the permeability of oxygen, carbon dioxide and water vapour through PE films. For example, at an addition rate of 15% into LDPE film, it can halve permeability and therefore double the barrier performance. This could avoid the need to use barrier materials such as EVOH for food packaging applications where a few extra days of shelf life is sufficient.

Other packaging applications where a single-polymer solution is required with improved barrier properties could also be opportunities for BR 02017 LL. Films containing BR 02017 LL are fully recyclable and EU food contact approved.

Additional benefits have materialised when using BR 02017 LL, such as higher film stiffness and lower melt pressure during extrusion.

Please speak to your Plastristribution representative if you would like to trial a sample of BR 02017 LL.

Technical support is available for further advice, guidance and recommendations.

**Read on for  
more information >**

# Confidential Product Information

**CONSTAB**<sup>®</sup>  
Member of **Kafr!tGroup**

## CONSTAB BR 02017 LL Barrier Masterbatch

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CONSTAB BR 02017 LL is used in the production of articles made of polyethylene or compatible polyolefins. It is composed of polymer modifying agents to facilitate processing, enhance mechanical and optical properties, as well as reduce gas and/or aroma permeation.

- Enhances mechanical and optical properties (e.g.: "stiffness" and clarity)
- Reduces gas permeation (WVTR, OTR, CO<sub>2</sub>)
- Easier processing and optimized shrinkage

Typical Properties (SI):

PROPERTY	VALUE	UNIT	NORM
Colour	colourless, translucent	Visual	CONSTAB
Density	0.990	g/cm <sup>3</sup>	ISO 1183
Bulk Density	560	kg/m <sup>3</sup>	ISO60

For each application the exact dosing has to be determined empirically.

PROPERTY	VALUE	UNIT	REMARK
Typical Let Down Ratio	5.0 ... 20.0	%	Gravimetric

This masterbatch is preferably used in polymer blends based on HOPE, but may also be added into any LLDPE or LOPE type of polymer mixture. It can change the melting and crystallization behaviour of the base polymers it is given to; in addition to that it might reduce the melt viscosity of the entire polymer blend significantly. Therefore, adjusting the processing parameters of extrusion and production lines will be necessary. Please contact your local sales representative for detailed recommendations or additional additive masterbatch suggestions.

For detailed information please contact your local sales representative. This product is intended as a component for the production of food packaging articles according to the regulations of:

- European Union (EU)

The quality of this product is impaired by humidity, sunlight, temperature and further environmental influences. Therefore, opened containers must be closed carefully. The expected shelf-life is 12 months if stored properly. For further information please consult the Safety Data Sheet available via your local sales representative.

Giving Life to **Plastic**

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