

# Product Data Sheet Lucofin® 1440H

## Product description

Lucofin 1440H is a polar copolymer compound consisting of ethylene butyl acrylates with low crystallinity, additives and other polyethylenes. Due to its chemical structure Lucofin 1440H is softer and more flexible than pure ethylene homopolymers with comparable density. Lucofin 1440H contains antioxidant, slip and antiblock additives.

## Product properties

Lucofin 1440H can be used pure or as a component in mixtures in film applications where improved flexibility, sealability and low friction are required.

## Product advantages

- ▶ low friction, high antiblocking properties
- ▶ easy processing on standard processing equipment
- ▶ flexibility
- ▶ impact strength at low temperatures (- 40 °C)
- ▶ thermal stability of polymer (no corrosive by products)
- ▶ good mechanical properties
- ▶ high end use temperature
- ▶ good compatibility and filler acceptance
- ▶ good organoleptics
- ▶ environmentally sound

## Applications

Lucofin 1440H is used primarily for extrusion applications. In the field of film extrusion it is used for blown films where softness, toughness and low friction is required. Typical applications are hygiene films and examination or veterinary gloves. Its excellent processability, sealability and flexibility makes it suitable for the production of pouches (urinary, etc.).

The slip and antiblock content is adapted to the production of thin films (20 - 40 µ). For the production of thicker films, it is recommended to mix Lucofin 1440H with Lucofin 1400HN (natural EBA, 16 %) Lucofin 1440H can also be added as a masterbatch for standard PE formulations in order to improve antiblocking or friction performance.

## Processing

Lucofin 1440H can be processed on conventional standard processing equipment. We recommend a melt temperature range between 170 -200 °C.

## Storage and handling

Lucofin 1440H should be stored in dry conditions at a temperature below 60 °C and protected from UV-light. Otherwise degradation may occur resulting in smell generation and colour changes.

## Packaging

Granules in 25 kg bags, other packaging upon request.

## Chemical resistance

Lucofin 1440H is resistant to water and aqueous solutions, salt as well as to dilute acids and bases. When exposed to aliphatic, aromatic and halogensubstituted hydrocarbons Lucofin 1440H may swell or dissolve to a certain extent.

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<b>Typical Properties</b>			
	Standard	Unit	Standard value
Density (23 °C)	ISO 1183	g/cm <sup>3</sup>	0.941
MFR (190 °C/2.16 kg)	ISO 1133	g/10 min	1.4
Comonomer BA	DIN 51451	%	14
DSC	ISO 3146	°C	96 - 134
These standard values are typical values and should not be regarded as specifications.			

**Note**

The information provided in this document is based on our product tests and present technical knowledge. It does not release purchasers from the responsibility of carrying out their receiving inspections. Neither does it imply any binding assurance of suitability of our products for a particular purpose. As LUCOBIT cannot anticipate or control the many different conditions under which this product may be processed and used this information does not relieve processors from their own tests and investigations. Any proprietary rights as well as existing legislation shall be observed.