

Product Data Sheet

Lucofin® 8182

1. Product description

Lucofin® 8182 is a compound based on a polar ethylene copolymer and n-butyl acrylate with low crystallinity, enriched with high amounts of CaCO_3 . Due to its chemical structure, Lucofin® 8182 is softer and more flexible than other compounds based on ethylene copolymers/homopolymers of comparable density. Lucofin® 8182 is supplied as uncolored granules.

2. Product properties

Lucofin® 8182 is used as a concentrate for the production of breathable films (e.g. backsheets for diapers / hygiene articles). Lucofin® 8182 is a concentrate that can be processed into films with up to 70% CaCO_3 in the casting process. Compared to conventional breathable films, the films have a high water vapor permeability even when unstretched. It has excellent low-temperature impact strength and outstanding perspiration resistance. Lucofin® 8182 films can be easily extruded to a thickness of 10-12 μm or stretched to a basis weight of less than 10-15 GSM.

The material can be used as a filler Calcium Carbonate Masterbatch for diverse Polymers like Polyolefine PP, PE, PVC, Polyamid (with improvement of impact resistance).

4. Processing

Lucofin® 8182 breathable is suitable for conventional standard processing machines. A high extruder L/D ratio has a positive effect on dispersion. We recommend the following barrel temperatures for extrusion:

Cast film / cast film: approx. 180° - 220°C

5. Packaging

Granules in 1200kg Oktabin.

6. Storage and handling

Lucofin® 8182 must be stored dry and below 50°C. Otherwise processing problems and / or odor formation / discoloration due to material degradation may occur.

3. Applications

- High filling level of CaCO_3 , homogeneously dispersed
- High thermal stability for processing at higher melt temperatures (no corrosive by-products)
- Films with low wall thickness can be extruded using the casting process
- Films with up to 70% CaCO_3 can be produced
- Films already exhibit high breathability when unstretched
- Suitable for highly filled, microcellular foams

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Technical data			
	Standard	Unit	Standard value
MFR (190°C / 10 kg)	DIN EN ISO 1133-1	g/10 min	10,0
Ash content (500°C / 30 min.)	DIN EN ISO 3451-1	%	80
These standard values are typical values and should not be regarded as specifications.			

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