

# Product Data Sheet Lucofin® 2033DS

## Product description

Lucofin 2033DS is a copolymer suitable for blown film applications with good optical and mechanical properties even at low temperatures. The material has very good sealing properties. The butyl acrylate content is 3%.

## Applications

- Shrink film.
- Silage film.
- Heavy-duty bags.

Recommended melt temperature range from 180°C. Processing characteristics of 2033DS are similar to LDPE and conventional polyethylene extruders are recommended.

## Storage

Lucofin 2033DS should be stored in a dry atmosphere, on a paved, drained and not flooded area, at temperatures under 50°C and protected from UV radiation. Storage under inappropriate conditions could initiate degradation processes or undesired migration of additives included in its formulation which may have a negative influence on the processability and the properties of the transformed product.

## Disclaimer

This grade complies with the European regulations for materials for use in food contact. This grade is not intended to be used in medical, pharmaceutical, or healthcare applications, therefore Repsol does not authorize its use in them.

LUCOBIT does not grant express or implicit guarantees that extend beyond the description contained herein. Nothing herein shall constitute any guarantee of merchantability or fitness for a particular purpose. Before using a product sold by LUCOBIT, users must make their own independent determination that the product is safe, legal, and technically suitable for its intended use. LUCOBIT does not assume any responsibility for the use of its materials together with other materials.

## Related documents

The following related documents are available on request, and represent various aspects on the usability and safety of the product:

- Safety data sheet
- Statement on compliance with food contact regulations

Recommended consumption period: 12 months from the raw material reception

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Properties			
	Value	Unit	Test Method
<b>General</b>			
Melt flow rate (190°C, 2.16kg)	0.3	g/10 min	ISO 1133
Butyl acrylate content	3	%	Internal
Density at 23°C	923	kg/m <sup>3</sup>	ISO 1183
<b>Film<sup>(1)</sup></b>			
Dart drop (F <sub>50</sub> )	600	g	ISO 7765-1
Tear resistance (Elmendorf) (MD/TD)	400/600	cN	ISO 6383-2
Tensile strength at break (MD/TD)	25/25	MPa	ISO 527-3
Elongation at break (MD/TD)	500/700	%	ISO 527-3
Gloss (45°)	70	%	ASTM D-2457
Haze	10	%	ASTM D-1003
<sup>(1)</sup> 125 µm thickness film, blow up ratio 1:2.5, frost line height 50 cm.			
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.