

Preliminary Product Data Sheet

Lucofin® 1400CN RC

1. Product description

Lucofin®1400CN RC is a polar copolymer of ethylene and n-butyl acrylate with low crystallinity and has a content of 70% recycled material (re-compound based on postindustrial recyclate). Due to its chemical structure, Lucofin®1400CN RC is softer and more flexible than ethylene homopolymers of comparable density.

Lucofin®1400CN RC is supplied as uncoloured granulate.

2. Product properties

Lucofin®1400CN RC is used in mono layer films, multilayer film composites or as a polymer modifier to improve splicing behaviour, stress cracking resistance ESCR, low temperature flexibility, weldability and processability.

3. Product advantages

- Simple processing on conventional plastics processing lines
- Flexibility
- Low temperature impact strength (- 40 °C)
- Thermal stability of the polymer (no acid cleavage)
- good mechanical properties
- high service temperatures
- good compatibility and fillability
- Environmental friendliness

4. Applications

The material is mainly used in extrusion. In film extrusion Lucofin®1400CN RC is used e.g. for construction and agricultural films, stretch films and bonnets, FFS sacks. Applications of compounds – which are based on Lucofin®1400CN RC - are also in the field of waterproofing membranes.

5. Processing

Lucofin®1400CN RC can be processed on all machines commonly used for thermoplastics. The following guide values are recommended for extrusion:

Profiles and tubes: approx. 160° - 200 °C

Blow moulding: approx. 160° - 200 °C

Blown films: approx. 160° - 190 °C

Cast films: approx. 160° - 220 °C

Coatings: approx. 160° - 270 °C

6. Chemical resistance

Lucofin®1400CN RC is resistant to water and aqueous solutions, salts as well as diluted acids and bases. Lucofin®1400CN RC can be partially swollen or dissolved by aliphatic, aromatic and halogen-substituted hydrocarbons.

With regard to organoleptic/sensory suitability, we recommend application-related tests.

7. Packaging

Granules in big bags at 1000kg and 25 kg sacks on standard pallet at 1.375 kg. Special packaging is possible.

8. Storage and handling

Lucofin®1400CN RC should be stored dry, below 40°C and protected from direct UV-radiation. Otherwise packaging damage or, due to material degradation, odour and/or discolouration may occur.

Disclaimer: The product mentioned herein is not intended to be used for medical, pharmaceutical or healthcare applications; and we do not support its use for such applications.

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Technical data			
	Standard	Unit	Standard value
Density (23 °C)	ISO 1183-1	g/cm ³	0,923
MFR ⁴ (190 °C/2.16 kg)	ISO 1133-1	g/10 min	1,0
Comonomer n-BA ⁵	DIN 51451	%	4-5
Melting temperature	ISO 3146	°C	109
Vicat softening temperature A/50	ISO 306	°C	88
Module of Elasticity (23 °C)	ISO 178	MPa	184
Stress at break – Type 5 A	ISO 527-1, -2	MPa	23,8
Elongation at break – Type 5 A	ISO 527-1, -2	%	>600
Shore Hardness D	ISO 868	-	45
These standard values are typical values and should not be regarded as specifications.			

¹ FFS – Form, Fill and Seal

³ FDA - Food and Drug Administration

⁴ MFR – Melt Flow Ratio

⁵ n-BA – n-Butyl-acrylate

⁶ NB – No Break

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