

Product Data Sheet

Lucofin® 2400MN

1. Product description

Lucofin®2400MN is a polar copolymer with low crystallinity consisting of ethylene and n-butyl acrylate.

Due to its chemical structure Lucofin®2400MN is softer and more flexible than ethylene homopolymers with comparable density. Lucofin®2400MN is supplied as non-colored granules.

2. Product properties

Lucofin®2400MN is used as components in multilayer film applications, as polymer modifier and in compounds for Cables. Lucofin®2400MN improves stress crack resistance ESCR¹, cold impact behavior and weldability. The product is a perfect base to reach high filler contents.

3. Product advantages

- high flexibility
- high impact strength at low temperatures (- 40°C)
- high thermal stability for processing at higher melt temperatures (no corrosive byproducts)
- good compatibility to a wide range of polymers (e.g. compounding and recycling)
- high filler loading

4. Applications

- Extrusion (profiles, sheets)
- Injection molding
- Microcellular foams
- Compounds and masterbatches
- Cables

5. Processing

Lucofin®2400MN is suited for conventional standard processing equipment. We recommend the following standard temperature for extrusion.

| | |
|------------------------|----------------------|
| Profiles and hoses: | approx. 180° -200°C |
| Flat-sheet composites: | approx. 180° - 220°C |
| Coatings: | approx. 180° - 270°C |

6. Packaging

Granules in 25 kg bags, on a pallet with 1.375 kg. Other packaging / bulk upon request.

7. Storage and handling

Lucofin®2400MN should be stored under dry conditions at a temperature below 50°C and protected from UV-light. Otherwise, the packaging could be damaged or degradation may occur resulting in odor generation and color changes.

¹ ESCR – Environmental Stress Crack Rate

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. To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication. However, we do not assume any liability whatsoever for the accuracy and completeness of these information. LUCOBIT AG gives no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose. It is the customer's responsibility to inspect and test our products in order to satisfy himself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use as well as the appropriate processing and handling of our products. No liability can be accepted with respect to the use of LUCOBIT AG products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any other third party materials.

Product Data Sheet

Lucofin[®] 2400MN

| Technical data | | | |
|-----------------------------------|---------------|-------------------|----------------|
| | Standard | Unit | Standard value |
| Density (23 °C) | ISO 1183-1 | g/cm ³ | 0,926 |
| MFR ⁴ (190 °C/2.16 kg) | ISO 1133-1 | g/10 min | 7 |
| Comonomer n-BA ⁵ | DIN 51451 | % | 27 |
| Melting temperature | ISO 3146 | °C | 82 |
| Vicat softening temperature A/50 | ISO 306 | °C | 41 |
| ESCR | ASTM D1693 | hrs | >2500 |
| Stress at break – Type 5 A | ISO 527-1, -2 | MPa | 7,5 |
| Elongation at break – Type 5 A | ISO 527-1, -2 | % | 600 |
| Shore Hardness D | ISO 868 | - | 20 |

These standard values are typical values and should not be regarded as specifications.

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. To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication. However, we do not assume any liability whatsoever for the accuracy and completeness of these information. LUCOBIT AG gives no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose. It is the customer's responsibility to inspect and test our products in order to satisfy himself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use as well as the appropriate processing and handling of our products. No liability can be accepted with respect to the use of LUCOBIT AG products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any other third party materials.