

# Product Data Sheet

## Lucopren®1500H

### 1. Product description

Lucopren®1500H is a novel, super-soft and highly elastic material based on thermoplastic polyolefins. It is suitable for respective extrusion and injection molding applications as well as improving the mechanical properties of especially LLDPE and LDPE film applications and/or impact modifying PP. Standard grade can be supplied as non-colored granules. Customized colored version are available upon request.

### 2. Product properties

Lucopren®1500H displays excellent flexibility and elasticity. Lucopren®1500H can be converted into products with an excellent touch and good rebound resilience. In multi-layer composites Lucopren®1500H demonstrates superior adhesion to polyolefins. Moreover, Lucopren®1500H can be easily colored by using standard color-masterbatches with a polyolefin carrier resin.

### 3. Product advantages

- Easy processing on standard processing equipment
- High stability, elasticity and flexibility
- Good mechanical properties
- High end use temperature
- High impact properties at low temperatures
- Good compatibility with polyolefins
- Good organoleptics
- Environmentally friendly

### 4. Applications

Lucopren®1500H is of molding grade easily to be converted into any kind of polymeric product where improved elasticity is required. Additionally, Lucofin® 1500H can be used to manufacture soft layers of rubbery surfaces and touch,. Other fields of application are extrusion coatings and multi-layer constructions as well as calendared tarpaulins as an alternative to soft PVC. Furthermore, when crosslinking Lucopren®1500H by means of peroxide or radiation, stable, closed-cell foams can be produced.

### 5. Processing

Lucopren®1500H is suited for conventional standard processing equipment. We recommend the following standard settings for extrusion.

|                        |                      |
|------------------------|----------------------|
| Profiles & Hoses:      | approx. 110° - 140°C |
| Blow molding:          | approx. 130° - 200°C |
| Blown films            | approx. 110° - 160°C |
| Flat sheet composites: | approx. 160° - 200°C |
| Coatings:              | approx. 160° - 210°C |

### 6. Chemical resistance

Lucopren®1500H is resistant to water and aqueous solutions, salt as well as to dilute acids and bases. When exposed to aliphatic, aromatic and halogen-substituted hydrocarbons Lucopren®1500H may swell or dissolve to a certain extent.

### 7. Storage and handling

Granules in 25 kg bags, pallet standard = 1.375 kg  
 Other Packaging upon request.

Lucopren®1500H should be stored under dry conditions at a temperature below 40 °C and protected from UV-light otherwise the packaging could be damaged Storage time in excess of 6 months may have a negative impact on the processability of the product. We strongly recommend to use the material latest within 6 months after delivery.

Use beyond the recommended shelf-life. The product should be inspected according to quality assurance measures to ensure product's performance. Otherwise degradation may occur resulting in odor generation and color changes.

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| <b>Typical Properties*</b>  |                 |                   |                       |
|-----------------------------|-----------------|-------------------|-----------------------|
|                             | <b>Standard</b> | <b>Unit</b>       | <b>Lucopren®1500H</b> |
| Color                       |                 |                   | natural               |
| Density (23 °C)             | ISO 1183        | g/cm <sup>3</sup> | 0.89                  |
| Melt Temperature            |                 | °C                | 140                   |
| MFR (230°C/2.16 kg)         | ISO 1183        | g / 10 min        | 0.6                   |
| Vicat Softening Point       | ISO 306         | °C                | 61                    |
| Elongation at Break (23 °C) | ISO 527         | %                 | > 950                 |
| Tensile Strength            | ISO 527         | MPa               | > 10                  |
| Shore Hardness D            | ISO 868         | -                 | 30                    |

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

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