

# Product data sheet

## Lucobatch®1850 T10/T20/T100

### 1. Product description

Lucobatch®1850T10/T20/T100 is a highly stabilized, bitumen and halogenfree masterbatch based on polyolefins. The granules are available in different stabilization grades for mixing tailor-made products for different requirements, mainly in the construction of tunnels as a sealing membrane. The color is black.:

### 2. Product properties

Sealing membranes Lucofin® are made by mixing 20% Lucobatch 1850 ff with suitable polymers They display excellent behavior in

- tear resistance, flexibility and weather resistance.
- longterm stabilization is given below
  - 10 years by using Lucobatch®1850T10
  - 20 years by using Lucobatch®1850T20
  - 100years by using Lucobatch®1850T100
- It exhibits good toughness, superior biaxial stretchability, and
- good flexibility even at low temperatures

### 3. Product advantages

- easy processing on standard processing equipment wide color range
- easy to weld (hot air/hot air wedge welding) good mechanical properties
- flexibility, ageing resistance
- compatible with polyolefins and bitumen according to DIN 16726
- environmentally sound long-term experience

### 4. Applications

TPO/FPO membranes Lucofin® made out of Lucobatch®1850 are mainly used in construction for tunnel and landfill. Lucofin membranes and profiles can be welded safely and durably. Furthermore, Lucofin is suitable for the production of injection moulded parts in

the building.

### 5. Processing

Lucofin® products are suited for standard processing equipment used for thermoplastics. We recommend the following processing temperatures as standard values for extrusion.

Membranes/ flat-sheet composites: approx. 160° - 230°C  
 For injection molding, Lucofin® compounds are processed at melt temperatures ranging from 160° - 220°C and mold temperatures from 10° - 40°C.

### 6. Chemical resistance

Lucobatch®1850T10/T20/T100 is resistant to water and aqueous solutions, salt as well as to dilute acids and bases. When exposed to alpha- tic, aromatic and halogen-substituted hydrocarbons Lucofin 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.

Lucobatch®1850T10/T20/T100 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.

Technical Data					
	Standard	Unit	Lucobatch® 1850 T10	Lucobatch® 1850 T20	Lucobatch® 1850 T100
MVR 190°C/2.16 kg	ISO 1133	ml / 10 min	2,2	2,5	4,1
Density 23°C	ISO 1183	g / cm <sup>3</sup>	1,29	1,29	1,29
* These standard values are typical values and should not be regarded as specifications.					

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