

# Product Data Sheet Lucofin® 7600 MB

## Product description

Lucofin® 7600MB is an EBA-based black masterbatch with 40% carbon black. It is compatible with thermoplastics like PE, EVA, EBA and PVC.

Recommended dosage: 2%-4% masterbatch addition and depends of the performance requirements of the final application.

## Applications and markets

Because of its selected pigment the black masterbatch has excellent UV stability and is used in cable applications for jackets and insulations for power- and telecom cables as well as construction- and optical fiber cables.

Lucofin® 7600 MB is also designed to be used in low smoke zero-halogen cables within trains, ships, tunnels,

office buildings, public buildings and off-shore installations.

## Method of addition

The masterbatch dilutes easily and homogenously in thermoplastics and is therefore suitable for direct addition by automatic dosing units or by pre-blending.

## Typical properties

Carrier: EBA  
Pigment: 40 % carbon black  
Compatibility: LDPE, LLDPE, HDPE, EBA, EVA, PVC  
Density:  
MFI 190°C/ 21,6 kg:

## Packaging

Granules in 25 kg bags

# Product Data Sheet Lucofin® 7600MB

## Recommended processing and handling conditions:

### Extruder

Using an extruder with an L/D ratio (length/diameter) of 15-24 is recommended.

### Screw

As a zero halogen low smoke material Lucofin® 7600 MB has a melt viscosity higher than PE/PVC. Lucofin® 7600 MB requires more power during processing possibly leading to an increase of melt temperature with increasing screw speed.

Using a low compression, low shear screw is recommended. A compression ratio of 1,2 : 1 is ideal. The compression ratio should not exceed 2,5 : 1.

The recommended screw water temperature is 30 °C - 50 °C.

### Screen pack

The recommended size of the screw pack is 300 µm.

## Head and tool design

The head and tools should be designed as to give streamlined flow. Lucofin® 7600 MB can be used for tubing as well as pressure techniques. In case of a tubing technique, the draw down ratio is to be kept low to avoid internal stresses. The recommended draw down ratio is 1,5 : 1.

## Drying

Usually, pre-drying of 7600 MB is not necessary if the compound has been stored in a dry area at ambient temperatures without exposure to direct sunlight. However, if the melt temperature is expected to rise above 170 °C, or if Lucofin® 7600 MB has been stored under humid conditions, or if Lucofin® 7600 MB has been stored for some longer time, it may be advisable to dry the material prior to extrusion. We recommend a drying temperature of 60 °C – 70 °C for some hours.

### **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.