

## Technical Information

## TEGO Sorb® PY 30 PE / TEGO Sorb® PY 30 PP

TEGO Sorb® PY 30 PE and TEGO Sorb® PY 30 PP are masterbatches based on polyethylene (PE) and polypropylene (PP), respectively. Their malodour reducing function is based on two mechanisms. First, they contain zinc ricinoleate, which is working as an odour absorber according to the key and locker principle (not working with a flavour principle). Second, TEGO Sorb® PY 30 PE and PP promote the evaporation of smelling low molecular weight substances during processing using open vents.

## Physical properties of both products

Appearance (20 °C)	Pellets
Bulk density	250 - 300 kg/m <sup>3</sup>

## Application fields

TEGO Sorb® PY 30 PE and PP are used against malodour in the production of masterbatches and compounds using double screws. Malodour during these processes may result from the use of certain pigments, the use of recycled polymers or from vulcanization (TPE-V).

Typical final applications are automotive parts or garden furniture made from recycled PE or PP.

TEGO Sorb® PY 30 PE and PP are in general also suitable for single screw applications where the recycled polymer compound may end up in film applications. However, TEGO Sorb® PY 30 PE and PP cannot be used for the direct film production operation. For the film production process alternative products such as TEGO Sorb® PY 50 PE and TEGO Sorb® PY 50 PP are recommended.

## Benefits

- Their excellent odour absorbing properties (it is no flavour such as vanilla) make TEGO Sorb® PY 30 PE and PP especially suitable for the effective control of odours evolving from products like hydrogen sulfide, mercaptane, thioether, isovaleric acid, amines and ammonia. Furthermore, the evaporation of further smelling low molecular weight substance is promoted.
- TEGO Sorb® PY 30 PE and TEGO Sorb® PY 30 PP enable precise dosing even for very small dosages.

## Dosage/Handling

TEGO Sorb® PY 30 PE and PP can be easily dry blended before compounding or directly fed on the single or double screw extrusion line. Extrusion with open vents is recommended.

TEGO Sorb® PY 30 PE and PP are not suitable for film manufacturers. For film producers the odour absorbers TEGO Sorb® PY 50 PE and TEGO Sorb® PY 50 PP are recommended.

The optimum dosage of TEGO Sorb® PY 30 PE and PP depends on the specific formulation and on the required performance. In general, for TEGO Sorb® PY 30 PE a dosage between 3 % and 10 % is recommended (try 6 % for a first trial). For TEGO Sorb® PY 30 PP a dosage between 2 % and 7 % is recommended (try 4 % for a first trial).

## Registration status

TEGO Sorb® PY 30 PE and PP are listed on the following inventories:

EINECS, TSCA, NDSL, ECL, IECSC, AICS

Based on the submitted information of our raw material suppliers we can confirm, that TEGO Sorb® PY 30 PE and PP are compliant with EC Regulation 1907/2006 (REACH).

### Storage stability

TEGO Sorb® PY 30 PE and PP as delivered can be stored in closed bags for 12 months.

### Packaging

10 kg net in a cardboard box with PE inliner

### Hazardous goods classification

Information concerning

- classification and labelling according to regulations for transport and for dangerous substances
- protective measures for storage and handling
- measures in case of accidents and fire
- toxicity and ecological effects

is given in our material safety data sheets.

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