

Technical Information

TEGO Sorb® PY 88 TQ

TEGO Sorb® PY 88 TQ is a zinc ricinoleate used as odor absorber with a key and locker principle; it is not working with a flavour principle.

Physical properties

Appearance (20 °C)	pale yellow pellets
Water content	max. 3 %
pH value (1 % in EtOH)	5.5 - 7.5
Zn - content	8.8 - 10.8 %
Melting point	approx. 70 °C

Application fields

TEGO SORB® PY 88 TQ is used for the production of masterbatches and compounds.

Benefits

Its excellent odor absorbing properties (it is no flavour such as vanilla) makes TEGO Sorb® PY 88 TQ especially suitable for the effective control of odours evolving from products like hydrogen sulfide, mercaptane, thioether, isovaleric acid, amines and ammonia.

Beside the excellent odor absorber effect TEGO Sorb® PY 88 TQ provides good heat stability in the compounding process. Compatibility with other chemicals has to be checked for each particular case and application.

TEGO Sorb® PY 88 TQ is especially suitable for polyolefins (e. g. LDPE, PP), rubber compounds (e. g. vulcanized TPE-V or EPDM) and recycled material (e.g. PA, polyolefins and rubber).

TEGO Sorb® PY 88 TQ reduces odor during dispersing of ultramarines (UB), yellow pigments and oxidized carbon blacks.

For special SBR rubber emulsions or acrylates with malodor an aqueous formulation of TEGO Sorb® PY 88 TQ is available.

Dosage/Handling

TEGO Sorb® PY 88 TQ can be easily dry blended before compounding or directly fed on the extrusion line. However, due to its melting point of 70 °C the feeder should not get hot.

Dosage depends on the application and specific formulation in use as well as on the required performance. The recommended dosage is 0.5 % to 2.0 % of TEGO Sorb® PY 88 TQ. A dosage of 1 % is often ideal.

TEGO Sorb® PY 88 TQ is used in color masterbatches typically with 1% in combination with pigments, e.g. 50 % UB in PP with 1% TEGO Sorb® PY 88 TQ or 10 % UB in PET with 1 % TEGO Sorb® PY 88 TQ.

TEGO Sorb® PY 88 TQ is suitable to produce 10 % masterbatches out of it in PE and PP. Exceeding that concentration is difficult and needs special screw and/or polymer selection. Usually 10 % masterbatches will be used with 5 - 10 % in the final application such as films.

Direct use of the 100% active TEGO Sorb® PY 88 TQ in film lines with single screws is not recommended since it results in inhomogeneous distribution, holes or pressure peaks. If necessary film manufacturers can receive a PE or PP based masterbatch for the evaluation stage from Evonik before they will be served on long term via a masterbatcher.

Food contact status

European Regulation 10/2011 and amendments
TEGO Sorb® PY 88 TQ can be used in accordance to the European Regulation 10/2011.

BfR Recommendations

TEGO Sorb® PY 88 TQ can be used in compliance with the BfR Recommendation XXI - (Natural and Synthetic Rubber) under chapter 2.1.3.1.2.4. (Process aids, Zinc salts of unsaturated fatty acids...), with max 3 %.

FDA

TEGO Sorb® PY 88 TQ can be used in compliance with FDA 21 CFR 177.1520 (olefin polymers) with a maximum dosage of 2 %.

TEGO Sorb® PY 88 TQ may be used in compliance with 21CFR 175.105.

Furthermore TEGO Sorb® PY 88 TQ is listed in 21CFR175.300 as drier.

TEGO Sorb® PY 88 TQ may be used in compliance with 21 CFR 177.2600 up to a maximum level of 5 % in the finished food contact article.

Registration status

TEGO Sorb® PY 88 TQ is listed on the following inventories:

EINECS, TSCA, NDSL, ENCS, AICS, ECL, PICCS, IECSC, NZIOC, TAIWAN

Based on the submitted information of our raw material suppliers we can confirm, that TEGO Sorb® PY 88 TQ is compliant with EC Regulation 1907/2006 (REACH).

Storage stability

TEGO Sorb® PY 88 TQ as delivered can be stored in closed bags for 12 months.

Packaging

25 kg bags (1 pallet = 28 x 25 kg = 700 kg)

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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Evonik Nutrition & Care GmbH
Goldschmidtstraße 100
45127 Essen, Germany
Phone Europe +49 201 173 2665
Phone Asia +86 21 61191 125
Phone Americas +1 804 727 0700
interface-performance@evonik.com
www.evonik.com/interface-performance

