

Technical Information

TEGOMER® E 525

TEGOMER® E 525 is a dispersing additive especially designed for the preparation of polyethylene color concentrates and filler compounds based on PE or PP.

Physical properties

Drop point	approx. 96 °C
Penetration no.	approx. 5 dmm
Melt viscosity (160 °C)	approx. 200 mPas
Appearance	free flowing powder

Application

TEGOMER® E 525 is a highly efficient dispersing aid for color concentrates based on polyethylene as a carrier.

TEGOMER® E 525 is applicable for mono or tailor made color concentrates and highly filled compounds.

It is recommended for the use for film, injection and molding application.

Benefits

The following advantages can be expected when TEGOMER® E 525 is used:

- increase of colour strength
- higher productivity and lower costs for coloration
- high filling grades of pigments
- excellent clarity and reduction of speck formation in films or thin moulded parts
- less agglomerates and aggregates
- excellent dilution behaviour
- suppression of re-agglomeration in downstream processes

Dosage

TEGOMER® E 525 is an easy to handle dispersing additive. All components of a masterbatch formulation can be easily dry blended before compounding in a low- or high-speed mixer. The dry blend is compounded by twin-screw extrusion or a similar kneading process.

TEGOMER® E 525 can be used in a cold or hot mixing process but in general cold mixing is preferred since hot mixing has the risk of formation of agglomerates which are wetted by TEGOMER® E 525 only from the outside.

The required dosage level depends on the nature and the amount of pigment in the masterbatch formulation:

	% AOP* (100 % dispersant)
Filler	2.0 – 4.0 %
Inorganic Pigment	3.0 – 5.0 %
Organic Pigment	30 – 50 %
Carbon black	50 – 100 %

*AOP = additive on pigment/filler

Food contact status

GB 9685-2016

TEGOMER® E 525 is compliant with GB 9685-2016 for use in plastic (PE, PP, PS, AS, ABS, PA, PET, PC, PVC, PVDC) and paper with food contact. SML values apply.

EU 10/2011

TEGOMER® E 525 can be used in compliance with EU-Regulation 10/2011 on plastic materials and articles intended to come into contact with food and its amendments up to 3.2 % w/w in polyolefin materials and articles.

FDA

TEGOMER® E 525 can be used in compliance with FDA Regulation 21 CFR 177.1520 (Olefin polymers). This is partly based on the fact that according to chapter (b) of this regulation, the basic olefin polymers may contain optional adjuvant substances which may include substances by applicable regulations in parts 170 through 189 of this chapter.

Registration

The ingredients of TEGOMER® E 525 are listed in the following chemical inventories:

EINECS, TSCA, DSL, ENCS, AICS, KECL, PICCS, IECSC, NZIOC, TCSI

Based on the submitted information of our raw material suppliers we can confirm, that TEGOMER® E 525 is compliant with EC Regulation 1907/2006 (REACH).

Storage stability

TEGOMER® E 525 is stable for a minimum of 1 year.

Packaging

20 kg cardboard box with in-liner
480 kg on pallets (24 x 20 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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