

Technical Information

TEGIN® 90 Pellets

TEGIN® 90 Pellets is an antistatic for polyolefin. It is based on a glycerol fatty acid ester.

Physical properties

Delivery form	pellets
Total monoester content (E.A. 74.01)	> 90 %
Melting point (DGF C-IV 3a)	65 – 70 °C
Acid value	max. 3 mg KOH/g
Saponification value	155 – 170 mg KOH/g
Iodine value	max. 2 g J/100 g
Free glycerol	< 1.5 %

Application

TEGIN® 90 Pellets is used as an antistatic agent for polyolefin.

Benefits

TEGIN® 90 Pellets reduces the surface resistance and thus the electrostatic charge of polyolefin articles. This results in:

- less dust figures on plastic surfaces, especially on plastic packaging
- less attraction of bacteria to the polyolefin surfaces
- improved melt behaviour in the plastification process; increase of MFI

Dosage

Because of its pellet form TEGIN® 90 Pellets can be dosed dust-free in all common plastics processing steps.

TEGIN® 90 Pellets can be applied in combination with ethoxylated fatty amines.

LDPE

Film	0.1 – 0.2 %
Injection moulding	0.1 – 0.2 %

HDPE

Injection moulding	0.2 – 0.4 %
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PP

Film	0.2 – 0.4 %
Injection moulding	0.3 – 0.6 %

Food contact status

BfR Recommendations

The ingredient of TEGIN 90 Pellets is listed in the following BfR Recommendations:

II / III / V / VI / VII / X / XI / XXXIII

EU Regulation 10/2011 and amendments

The ingredient of TEGIN 90 Pellets is listed in the European Regulation 10/2011 without a specific migration limit (SML).

FDA-Regulations

TEGIN® 90 complies to FDA Regulation 21 CFR 184.1505 provided that is used for indirect food contact.

The components of TEGIN® 90 Pellets are listed in following chemicals inventories:

EINECS, TSCA, ENCS, DSL, ECL, AICS, PICCS, IECSC and ERMA

Storage Stability

TEGIN® 90 Pellets is stable for a minimum of 6 months.

Packaging

25 kg paper bag (600 kg each pallet)

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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