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Irganox® 245 DW

Phenolic Primary Antioxidant for Processing and Long-Term Thermal Stabilization

Characterization

Irganox 245 DW is a 40 % active aqueous dispersion of Irganox 245, a sterically hindered phenolic antioxidant. It protects the substrates against thermo-oxidative degradation during manufacturing, processing and end-use. Irganox 245 DW is particularly suitable for polyvinyl chloride (PVC).

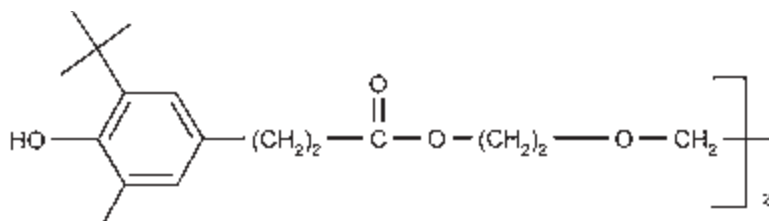
Chemical name

40 % Triethylene glycol bis(3-tert-butyl-4-hydroxy-5-methylphenyl) propionate; Polyvinyl Alcohol and deionized Water

CAS number

36443-68-2 (Irganox 245)

Chemical formula



Molecular weight

586.8 g/mol

Applications

Irganox 245 DW is recommended particularly for the stabilization of PVC. In addition to imparting thermostability to the finished polymer, Irganox 245 DW is effective as chain stopper during PVC polymerization.

Features/benefits

The desired quantity of Irganox 245 DW can easily be added or dosed into the polymerization system. As the antioxidant is uniformly dispersed in the reaction mixture, the resulting PVC chloride develops improved qualities such as excellent heat stability, low color and high thermal stability. The formation of fish eyes in film applications can also be reduced considerably. Additionally, Irganox 245 DW imparts excellent chain terminating properties during PVC polymerization.

Product forms

Irganox 245 DW

white, liquid dispersion

Guidelines for use

Irganox 245 DW can be recommended at a concentration level of about 0.03 %–0.08 % as chain stopper for the PVC polymerization.

Physical Properties

Particle size distribution	1 – 10 µm
Density (25 °C)	1.05 g/ml
Vapor pressure (20 °C)	4 E-8 Pa (extrapolated)
Viscosity (25 °C)	190 mPa · s

Health & Safety

Irganox 245 DW exhibits a very low order of oral toxicity and does not present any abnormal problems in its handling or general use.

Detailed information on handling and any precautions to be observed in the use of the product(s) described in this leaflet can be found in our relevant health and safety information sheet.

Note

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