

Technical Data Sheet

Hostanox®* O 3

CLARIANT 

Primary antioxidant for plastic materials

GENERAL

Hostanox O 3 is a highly efficient phenolic antioxidant for plastics with high resistance against hydrolysis, providing long term heat stabilization to polyolefins and polyamide especially for applications where the final article comes in contact with extractive media such as water, fat etc.

CHEMICAL COMPOSITION

Bis[3,3-bis-(4'-hydroxy-3'-tert-butylphenyl)butanoic acid]-glycol ester

Molecular weight 794 g/mol

PHYSICAL PROPERTIES

Melting Range	167 – 171 °C (333 – 340 °F)
Commercial Forms	Pills, Powder
Solubility	Soluble in acetone, ethyl acetate, iso-propanol, methanol. Insoluble in water

APPLICATIONS

Hostanox O 3 is recommended for the stabilization of polyolefins (PP, HDPE, LLDPE), Polyamides, ABS, styrenic polymers, polyesters, synthetic elastomers, adhesives, and many other organic substrates. In combination with sulphur containing co-stabilizers, such as **Hostanox SE 10** and **Hostanox SE 4**, it leads to a pronounced synergistic effect concerning long term thermal stability respectively oven life.

FOOD STATUS

Hostanox O 3 is broadly approved in plastics for food contact applications.

STORAGE STABILITY

Minimum shelf life is 3 years from date of shipping when properly stored.

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