

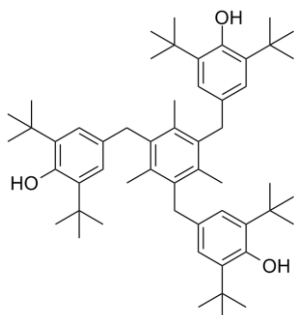
Product Name

RIANOX 330 Phenolic Antioxidant

A high molecular weight hindered phenolic antioxidant that provides very low volatility and excellent resistance to extraction from polymer compounds.

1,3,5-Trimethyl-2,4,6-tris(3,5-di-tert-butyl-4-hydroxybenzyl) benzene

CAS No.: [1709-70-2]



Typical Properties

Appearance	White to off-white powder
Molecular weight	775
Specific Gravity@20°C g/mL	1.04
Melting Range, °C	240-245

Solubility@20 °C (g/100g solvent)

Water	<0.01	Methanol	0.2	Chloroform	38
Toluene	36	Acetone	23	Hexane	1
Ethyl acetate	39	DMF	54	Dichloromethane	47

Specifications

Appearance:	White to off-white powder
Melting Range:	240.0-245.0°C
Volatiles:	≤0.50%
Clarity of solution:	Clear
Transmittance:	
@425nm	≥96.0%
@500nm	≥98.0%
Assay:	≥98.0%
Ash:	≤0.10%

RIANOX 330 is used in polyolefins e.g. polyethylene, polypropylene, polybutene for the stabilization of pipes, molded articles, wires and cables, dielectric films etc. Furthermore, it is applied in other polymers such as engineering plastics like linear polyesters, polyamides, and styrene homoand copolymers. It may also be used in PVC, polyurethanes, elastomers, adhesives, and other organic substrates.

RIANOX 330 has good compatibility with most substrates, high resistance to extraction and is odorless. It offers also excellent dielectrical properties. The product can be used in combination with other additives such as costabilizers (e.g. thioethers, phosphites, phosphonites), light stabilizers and other functional stabilizers. **RIANOX 330** is particularly recommended for polyolefin applications requiring good water extraction resistance combined with low color development.

The recommended dosage of **RIANOX 330** is 0.05-0.3%, the exact addition should be determined in trials.

Handling & Safety

The use of proper protective equipment is recommended. Excess exposure to the product should be avoided. Wash thoroughly after handling. Store the product in a cool, dry, well-ventilated area away from incompatible materials. Unless stated, proper storage will permit usage of the product for 24 months from the manufacture date. For additional handling and toxicological information, consult the Rianlon Corporation Safety Data Sheet.