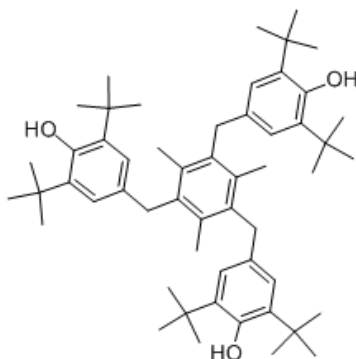


PUREstab 1330

Phenolic Antioxidant for Processing and Long-Term Thermal Stabilization

- Description:** **PUREstab 1330** is a sterically hindered phenolic antioxidant, used:
- in polyolefins e.g. polyethylene, polypropylene, polybutene for the stabilization of pipes, moulded articles, wires and cables, dielectric films.
 - in engineering plastics like linear polyesters, polyamides, and styrene homo and copolymers.
 - in PVC, polyurethanes, elastomers, adhesives, and other organic substrates.

Chemical Structure



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

CAS number 1709-70-2 **Molecular weight** 775 g/mol

Features & benefits **PUREstab 1330** has a good compatibility with most polymer substrates, high extraction resistance, odourless and excellent di-electrical properties. It reduces water carry-over in polypropylene tape extrusion. **PUREstab 1330** is particularly recommended for polyolefin applications requiring good water extraction resistance combined with low color development. It can be used in combination with other additives such as costabilizers (e.g. thioethers, phosphites, phosphonites), light stabilizers and other functional stabilizers. The synergistic blends of **PUREstab 1330** blend with PUREfos 168 is particularly highly effective.

Application **PUREstab 1330** is a high melting antioxidant and used in polyolefins (PE, PP, PB) for the stabilization pipes, molded articles, wire and cables. **PUREstab 1330** can also be 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.

In polyolefin's, **PUREstab 1330** is typically used in range from 0.05% to 0.3% depending on the substrate and processing conditions and long-term stability requirements. The optimum dosing is an application specific. The concentration levels range typically between 0.05% and 0.3% depending on substrate, processing conditions and stability requirements. In hot melt adhesives and synthetic tackifier resin, **PUREstab 1330** concentration ranges from 0.2% - 1.0% and 0.1% - 0.5% respectively.

TECHNICAL DATA SHEET

Polygel Product Management

Email: info@polygelbrunei.com



Handling and safety

In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Avoid continuous or repetitive breathing of dust. Use only with adequate ventilation. Avoid dust formation and ignition sources. **PUREstab 1330** exhibits a very low order of oral toxicity and does not present any abnormal problems in its handling or general use. For more detailed information please refer to the material safety data sheet.

Storage

This product may be stored up to two years in a sealed container. Containers should be kept tightly closed when not in use and stored in a cool, dry place.

Physical Properties

Product from	White free flowing power and granules
Melting range	240 – 245°C
Flashpoint	321°C
Vapor pressure	2 E-11 Pa
Density (20°C)	1.04 g/ml
Bulk density	Powder 530 – 630 g/l FF 480 – 570 g/l
Solubility (20°C) g/100g solution	
- acetone	18
- Chloroform	28
- Ethyl acetate	27
- n-Hexane	1
- Methanol	3
- Methylene chloride	34
- Water	≤ 0.01

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November' 2019