



Mayzo Makes It Possible

BNX[®] 1900

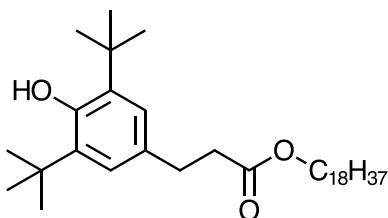
Antioxidant and Thermal Stabilizer Blend

Overview

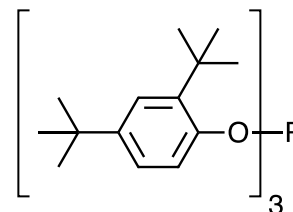
BNX 1900 is a synergistic blend of the phenolic antioxidant BNX 1076 and the phosphite Benefos[®] 1680 in a 1:4 ratio. This blend of both a primary and a secondary antioxidant provides excellent heat stability and resistance to oxidation, with good compatibility with resins and excellent extraction resistance.

Chemistry

Chemical Names:	BNX 1076 Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, octadecyl ester
	Benefos 1680 Phenol, 2,4-bis(1,1-dimethylethyl)-, 1,1',1''-phosphite
CAS Numbers:	BNX 1076 2082-79-3 Benefos 1680 31570-04-4
Chemical Structures:	BNX 1076



Benefos 1680



Typical Properties

Product Form:	Solid
Melting Range:	BNX 1076 49 – 54°C Benefos 1680 183 – 187°C
Molecular Weight:	BNX 1076 530.9 g/mol Benefos 1680 646.9 g/mol

Solubility

Please refer to the product data sheets for BNX 1076 and Benefos 1680 for solubility information.

Applications

BNX 1900 is a convenient blend of both a primary and secondary antioxidant. This synergistic blend addresses a broad range of stabilization needs. It is primarily recommended for use in polyethylene and ethylene-copolymers such as ethylene-vinyl acetate copolymers. BNX 1900 can also be used in other polymers such as engineering plastics, polycarbonates, polyesters, styrene homo- and copolymers, polyurethanes, elastomers, adhesives, and other organic substrates.

Advantages

- Ease and convenience for compounding operations
- Maintenance of original melt flow
- Low color contribution
- Improvement of long-term stability
- Low volatility at high processing temperatures
- Resistance to hydrolysis
- Extensive FDA clearances

Guidelines for Use

Typical recommended loading concentrations range between 0.1% and 0.5%. BNX 1900 is also suitable for use in combination with light stabilizers, including hindered amine light stabilizers (HALS), UV absorbers, and benzoates. The exact formulation to be used is dependent on the substrate, performance requirements, and other factors, and should be determined by the user based on testing to simulate actual conditions of use. Please contact Mayzo for specific recommendations.

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.

Safety

Please consult the Safety Data Sheet (SDS) prior to handling or using this product.

FDA Regulations

The components of BNX 1900 have extensive FDA clearances, including in adhesives, olefin polymers, ethylene-vinyl acetate copolymers, polystyrene (including rubber-modified polystyrene), polycarbonates, and acrylic plastics. Please contact your Mayzo representative for complete details, including restrictions of use.

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