



Mayzo Makes It Possible

## BNX<sup>®</sup> 2777

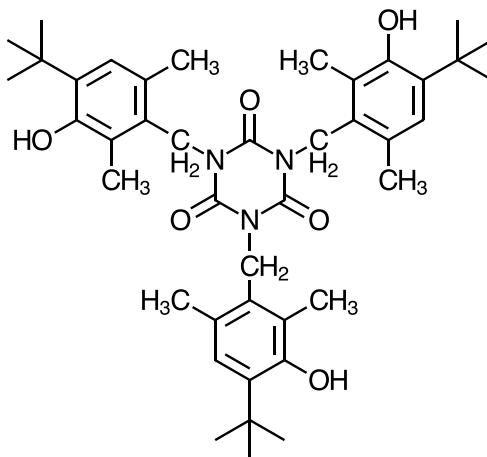
### Antioxidant and Thermal Stabilizer Blend

#### Overview

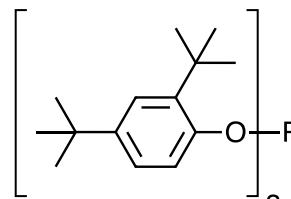
BNX 2777 is a synergistic blend of the phenolic antioxidant BNX 1790 and the phosphite Benefos<sup>®</sup> 1680 in a 1:2 ratio. This blend of both a primary and a secondary antioxidant provides excellent melt processing stability with good compatibility with resins and low volatility. Compared to other antioxidant blends this product provides excellent resistance to the discoloration phenomenon commonly known as "gas fading".

#### Chemistry

Chemical Names:	BNX 1790 1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tris[[4-(1,1-dimethylethyl)-3-hydroxy-2,6-dimethylphenyl]methyl]-
	Benefos 1680 Phenol, 2,4-bis(1,1-dimethylethyl)-, 1,1',1''-phosphite
CAS Numbers:	BNX 1790 40601-76-1 Benefos 1680 31570-04-4
Chemical Structures:	BNX 1790



Benefos 1680



#### Typical Properties

Product Form:	Solid
Melting Range:	BNX 1790 159 – 162°C Benefos 1680 183 – 187°C
Molecular Weight:	BNX 1790 699.9 g/mol Benefos 1680 646.9 g/mol

## Applications

BNX 2777 is a convenient blend of both a primary and secondary antioxidant. This synergistic blend addresses a broad range of stabilization needs. The resistance to “gas fading” makes it ideal for use as a melt processing stabilizer in polyolefins such as polypropylene, polyethylene, polyolefin copolymers and blends, and TPO’s. BNX 2777 is also suitable for use in linear polyesters, high impact polystyrene, ABS, PVC, EPDM, nylon, acetals, and polyurethanes.

## Advantages

- Ease and convenience for compounding operations
- Compatible with polymeric HALS and UV absorbers
- Provides excellent melt stability in a wide range of polyolefins
- Low water carryover
- Resistant to “gas fading” discoloration and black speck formation
- FDA cleared for use in polyolefins and polystyrene

## Guidelines for Use

Typical recommended loading concentrations in polyolefins and polystyrene range between 0.05% and 0.5%. BNX 2777 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 2777 have been FDA cleared for use in olefin polymers and polystyrene (including rubber-modified polystyrene) under 21 CFR §178.2010. Please contact your Mayzo representative for complete details, including restrictions of use.

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