



Mayzo Makes It Possible

BNX[®] 1098

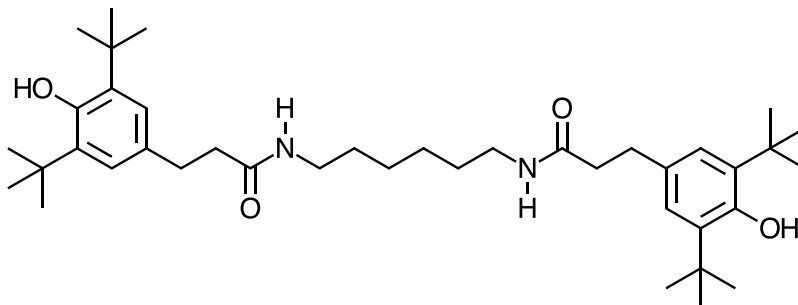
Antioxidant and Thermal Stabilizer for Polyamides

Overview

BNX 1098 is an antioxidant that provides excellent processing and long term thermal stability in polyamide (nylon) polymers and fibers and in other materials, including other polymers, elastomers, and adhesives.

Chemistry

Chemical Name: Benzenepropanamide, N,N'-1,6-hexanediylbis[3,5-bis(1,1-dimethylethyl)-4-hydroxy-
CAS Number: 23128-74-7
Chemical Structure:



Typical Properties

Product Form: Solid
Melting Range: 156 – 161°C
Molecular Weight: 637.0 g/mol

Solubility (percent by weight, 20°C)

Acetone	2	Chloroform	6
Benzene	0.01	Ethyl acetate	1
Caprolactam	>20	Hexane	0.01
Caprolactam/water (95/5)	3	Methanol	6
Caprolactam/water (80/20)	6	Water	<0.01

Applications

BNX 1098 is especially suited for the long-term thermal and process stabilization of polyamide (nylon) molded parts, fibers, and films. It is also recommended for use in other polymers such as polyacetals, polyester elastomers, polyurethanes, and elastomers as well as other organic substrates such as adhesives and sealants.

Advantages

- Provides excellent processing and long-term thermal stability with low initial color
- Resistant to extraction
- Excellent compatibility with polyamides and other substrates
- Replaces copper-based stabilizer systems for polyamides
- Low volatility
- FDA cleared for use in polyamides

Guidelines for Use

The recommended loading concentrations of BNX 1098 range between 0.1% and 1% in polyamides, between 0.05% and 0.5% in polyacetals, polyurethanes, elastomers, and between 0.05% and 1% in adhesives and sealants. Combinations of BNX 1098 with other antioxidants such as phosphites and thioethers often show synergistic performance. BNX 1098 is also suitable for use in combination with light stabilizers, including hindered amine light stabilizers (HALS) and UV absorbers. 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

BNX 1098 is cleared under 21 CFR §178.2010 for use as an antioxidant and/or stabilizer in polymers used in the manufacture of articles or components for use in food contact applications, including nylon resins, polyester resins, closures with sealing gaskets, repeated use rubber articles, and polyoxymethylene homo- and copolymers. Please contact your Mayzo representative for complete details, including restrictions of use.

The information contained herein is believed to be reliable. However, Mayzo, Inc. makes no warranty, whether expressed or implied, including warranties of merchantability or of fitness for a particular purpose, for the product or products referred to herein. No statements or recommendations contained herein are to be constructed as inducements to infringe any relevant patent, now or hereafter existence. Under no circumstances shall Mayzo, Inc. be liable for incidental, consequential, or other damages from alleged negligence, breach of warranty, strict liability, or any other legal theory, arising out of the use of handling of the product or products referred to herein. The sole remedy of the buyer and sole liability of Mayzo, Inc. for any claims shall be limited to the buyers purchase price of the product which is subject of the claim or the amount actually paid for each product, whichever is less. Technical advice furnished by seller shall not constitute a warranty, which is expressly disclaimed, all such advice being given and accepted at the buyers risk.