



Mayzo Makes It Possible

## BNX<sup>®</sup> 1037

### High Performance Multifunctional Antioxidant

#### Overview

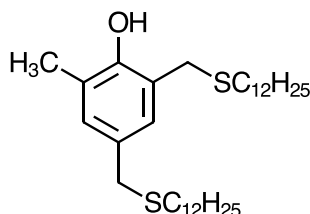
BNX 1037 is a high performance multifunctional antioxidant developed for the stabilization of hot melt adhesives based on unsaturated styrenic copolymers (SIS, SBS, SBR, etc.), solvent-based adhesives, water-based adhesives, unsaturated styrenic copolymers, rosin ester tackifiers and polyurethanes.

#### Chemistry

Chemical Name: Phenol, 2,4-bis[(dodecylthio)methyl]-6-methyl-

CAS Number: 110675-26-8

Chemical Structure:



#### Typical Properties

Product Form: Solid (below melting temperature)

Melting Point: 28°C

Molecular Weight: 537.0 g/mol

#### Solubility (percent by weight, 20°C)

Acetone	>50	Methanol	1
Cyclohexane	>50	Toluene	>50
Ethyl acetate	>50	Water	<0.1
n-Hexane	>50		

#### Applications

BNX 1037 is a high performance, multifunctional antioxidant developed for the stabilization of hot melt adhesives based on unsaturated copolymers (SIS, SBS, SBR, etc.). This product is also suitable for the stabilization of solvent-based adhesives, water-based adhesives, unsaturated block copolymers, and polyurethanes. Due to its unique chemistry it can be used in many applications without co-stabilizers.

### **Advantages**

- Improves color stability in hot melt adhesives after heat aging
- Superior viscosity stability in hot melt adhesives after heat aging
- More effective prevention of skin formation in hot melt adhesives
- Can be used without co-stabilizers due in many applications

### **Guidelines for Use**

Recommended concentrations in hot melt adhesives range from 0.1 to 1.0%. While the product can often be used without co-stabilizers, combinations with other antioxidants such as phosphites and thioethers often show synergistic performance. BNX 1037 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**

Please contact your Mayzo representative for complete details.

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