BNX® 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:**

![Chemical Structure Image]

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

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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