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Mark[®] 1984E Organotin Heat Stabilizer for PVC

Technical Information

Effective: 1-August-2010

Mark 1984E is a methyltin mercaptide designed for rigid PVC articles intended for food contact use.

Typical Properties of Mark 1984E

| Appearance | Clear, pale yellow liquid |
|--------------------------------|---------------------------|
| Wt. % Tin | 19.5 |
| Specific Gravity @ 25°C (77°F) | 1.18 |
| Refractive Index @ 25°C | 1.5095 |
| Flash Point (CC) | 150°C (302°F) |

These values are typical only and do not constitute a product specification

Features

Mark 1984E provides outstanding initial color, color retention and long-term heat stability in rigid PVC compounds. When used in rigid blow molding applications, **Mark 1984E** imparts crystal clarity to articles such as blow-molded PVC bottles. It also finds similar benefit in calendered or extruded rigid PVC film and sheeting. **Mark 1984E** is 15 - 20% more efficient than standard octyltin mercaptides resulting in significant cost-saving, better performance or both.

Recommendations

Mark 1984E stabilizer may be used safely at levels not to exceed 2.0% by weight in rigid vinyl homopolymer and copolymer of ethylene-vinyl chloride and propylene-vinyl chloride. This applies to contact with all food, except liquid milk, with a maximum fill temperature of 150°F.

FDA and Regulatory

Mark 1984E conforms to the specifications of the Food and Drug Administration as stated in section number 178.2010 of the food additive regulations for use in food-contact applications at a maximum level of 2.0% by weight.

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Typical Formulation for Blow-Molded PVC Bottles

| Ingredients | phr of Resin |
|-----------------------------|--------------|
| Homopolymer resin | 100.0 |
| FDA-Cleared Impact Modifier | 5.0 - 15.0 |
| Acrylic Processing Aid | 2.5 |
| Internal/External Lubricant | 1.0 – 1.5 |
| Mark 1984E | 1.5 – 2.0 |

Storage and Handling

Please refer to the Material Safety Data Sheet for additional information on handling and storage

