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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