

Endura[®] PS-70

Endura[®] Antimony Oxide Concentrate for Polystyrene

Endura[®] PS-70 is a concentrate which contains 70% antimony oxide dispersed in impact polystyrene. As a concentrate, Endura[®] PS-70 simplifies the handling and application of antimony oxide and makes it easier for users to comply with the current OSHA permissible exposure limit of 0.5 mg/m³ (as antimony) based on an 8-hour time-weighted average.

Endura[®] PS-70 must be used in conjunction with a halogenated organic compound in order to obtain flame retardancy.

Applications

Endura[®] PS-70 is designed for flame retardant polystyrene applications in particular, as well as a wide range of other flame retardant thermoplastic applications which can tolerate small amounts (usually less than 2%) of an impact polystyrene resin.

Typical Properties*

Property	Test Method	Result
Antimony Trioxide, wt%	Polymer Products' Method	70

Concentrates Improve Product Quality

Adequate mixing is essential to developing maximum performance from flame-retardant additives. Since the flame-retardant ingredients in our concentrates are thoroughly wetted with plastic, they are much more easily dispersed than individual dry ingredients. As a result, the use of concentrates rather than dry powders can improve both the flame retardancy and physical properties of the end product, and in many cases may permit a lower loading.

Cleaner, More Efficient Production with Concentrates

Plastics processors who use concentrates rather than dry powders benefit from a clean plant with minimal housekeeping. Employee dust exposure likewise is minimized. And there are fewer materials to inventory.

Materials handling is simplified with free-flowing, non-bridging concentrates that can be transferred easily with pneumatic conveyors.

Further, concentrates increase product efficiency through higher production rates with less power consumption and higher yields because additive loss is reduced. There's also less abrasion and equipment wear with concentrates.

Handling and Use

PMC Group Polymer Products' flame-retardant concentrates are considered to be non-hazardous under normal conditions. Material Safety Data Sheets are available on all these products, and you are encouraged to read and understand these documents before using the product. Since these products are used at elevated temperatures, fumes may be generated under some use conditions. Ventilation is necessary to minimize employee exposure to these fumes.

Packaging and Samples

Standard packaging for concentrates is in 1,000-lb boxes, lined and on pallets. Optional are 250-lb fiber drums and 50-lb bags. To meet particular needs, boxes up to 1,400 lb can be supplied.

Samples are available on request by calling Polymer Products' toll-free order number: 1-800-836-8589.

*Important: The descriptions, designs, and data contained herein are presented for your information only. Because there are many factors under your control which may affect processing or applications/use it is necessary for you to make appropriate tests to determine whether the product is suitable for your particular purpose prior to use. NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, OR DATA MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, DATA OR DESIGNS PROVIDED BE PRESUMED TO BE A PART OF OUR TERMS AND CONDITIONS OF SALE. Further, you expressly understand and agree that the descriptions, designs, and data furnished by Polymer Products hereunder are given gratis and Polymer Products assumes no obligation or liability for same or results obtained from use thereof, all such being given to you and accepted by you at your risk. Any laboratory flammability tests set forth herein are not intended to reflect hazards prescribed by materials under actual fire conditions. As governmental regulations and use conditions may change, it is the Buyer's responsibility to determine the suitability of Polymer Product's products for specific applications.