

Data Sheet

Endura® PE-101

ENDURA® Flame Retardant Concentrate for Polyethylene

Endura® PE-101 is a highly-loaded polyethylene concentrate which can be let down with low density, linear low density, or high density polyethylene to make a flame-retardant compound suitable for compounding, film and sheet, blow molding, injection molding, or extrusion. Because of its high loading, Endura® PE-101 achieves physical properties comparable to the base resin and modified flammability characteristics with a low letdown ratio. Endura® PE-101 contains active brominated flame-retardants with antimony oxide synergist and stabilizers.

Applications

Processes

Compounding
Injection Molding
Film and Sheet
Blow Molding

End-use Markets

Construction and Agriculture Films
Housings
Consumer Products

Typical Properties*

Property	Result
Recommended Processing Temperature	380 – 450 °F

Concentrates Offer Many Advantages

Improved Properties - Good dispersion is the key to maximum performance from flame-retardant additives. The flame retardant ingredients in our concentrates are predispersed and thoroughly wetted by the carrier resin. This results in improved flame retardancy and physical properties and in many cases lower loadings when compared to free powders.

Cleaner, Improved Material Handling - Plastics processors who use concentrates rather than dry powders benefit from a cleaner plant with minimal housekeeping effort. Employee dust exposure is greatly reduced and there are fewer materials to inventory. Material handling is simplified with free-flowing, non-bridging concentrates that can be transferred easily with pneumatic conveyors.

More Efficient Production - Concentrates increase compounding efficiency through higher production rates, less power consumption, higher yields and less abrasion and equipment wear.

Handling and Use

Endura® flame-retardant concentrates are considered to be non-hazardous under normal conditions. Material Safety Data Sheets are available. 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