

Endura[®] FR-5084-2

Endura[®] Flame Retardant Concentrate

Endura[®] FR-5084-2 is a highly loaded polyethylene concentrate which can be letdown with PBT and PET resins to produce a flame retardant compound suitable for injection molding applications.

Because of its high loading, Endura[®] FR-5084-2 can be let down with natural resins at low levels to produce a flame retardant compound with properties approaching those of the natural resin.

Recommended use level is 5-15%, depending on the flame retardant requirements.

Typical Properties*

Property	Test Method	Result
Letdown Ratio	PPC method	5-15%
Specific Gravity	ASTM-D-792	2.70
Melt Index, g/10 min	ASTM-D-1238 ('Ex10')	130

Concentrates Improve Product Quality

Adequate mixing is essential to developing maximum performance from flame-retardant additives. Since the flame-retardant ingredients in concentrates such as FR-5084 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

PPCI flame-retardant compounds and 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.

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