

Data Sheet

Endura® NY-100

Endura® Flame Retardant Masterbatch for Nylon 6 and 6,6

Endura® NY-100 is a halogenated flame retardant concentrate which can be letdown with both nylon 6 and nylon 6,6 to produce a flame retardant compound suitable for monofilament applications. Endura® NY-100 is designed for use in applications that meet the flammability requirements of *CPAI-84*, *NFPA-701*, *NFPA-702*, and *MVSS-302*.

Because of its high loading, Endura® NY-100 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 10-15% depending on the flame retardant requirements.

Endura® NY-100 provides excellent dispersion - a significant advantage in preventing plugging of spinnerettes, as well as fiber breakage during spinning or drawing. It is white in color, and can be pigmented easily to produce other colors, including black.

Product Specifications*

Property	Test Method	Typical Value
Specific Gravity	ASTM-D-792	1.85
Melt Index, g/10 min	ASTM-D-1238 'R'	14.5

Flammability Data for Endura® NY-100 in a Typical Unmodified Polyamide Resin

Flammability Test	Loading(%)	Test Thickness(in)	Performance Rating
NFPA-701	10-15	0.005	Passed
NFPA-702	10-15	0.005	Passed

Endura® Masterbatches Improve Your Final Product Quality

Since the flame-retardant ingredients in Endura® Masterbatches 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 Endura Masterbatches

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.

Handling and Use

Endura 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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