

Endura® NY-300

Endura® FLAME RETARDANT MASTERBATCH for Nylon 6 and 6,6

Endura® NY-300 is a flame retardant nylon masterbatch that can be letdown with nylon resins to produce a flame retardant compound suitable for injection molding applications.

Endura® NY-300 is designed for use in applications that meet the flammability requirements of UL-94 V-0 as low as 0.03125 inches.

Endura® NY-300 can be letdown in nylon-6, nylon-66, and other resins that can tolerate the addition of small amounts of nylon-6; typically less than 5%.

Product Specifications

Property	Test Method	Typical Value
Specific Gravity	ASTM-D-792	1.675

Endura® Masterbatches Improve Your Final Product Quality.

Adequate mixing is essential to developing maximum performance from flame-retardant additives. 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 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

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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Data Sheet

Endura® NY-300

Flammability Data in a Typical Unmodified Polyamide Resin (Nylon 6,6)

Flammability Test	Loading(%)	Test Thickness(in)	Performance Rating
UL-94	30	0.03125	V-0

Flammability Data in a Typical Glass Filled Polyamide Resin (15% Glass, 55% Nylon 6,6, 30% NY-300)

Flammability Test	Loading(%)	Test Thickness(in)	Performance Rating
UL-94	30	0.03125	V-0

Physical Data for 30% in a Typical Nylon 6,6 Resin

Property	Result
Tensile Strength, psi	9235
Tensile Modulus, psi	443,730
HDT (264 psi)	74 C
Notched Izod, ft-lb/in	0.81

Physical Data for 30% and 15% Glass Fiber in a Typical Nylon 6,6 Resin

Property	Result
Tensile Strength, psi	15,418
HDT (264 psi)	239 C
Notched Izod, ft-lb/in	1.34
UL-94	V-0 @ 0.03125 in

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