

Data Sheet

Endura® TPR-100

Endura® Flame Retardant Masterbatch for EPDM-based systems

Endura® TPR-100 is an EPDM-based flame-retardant masterbatch compatible with solvent-based systems or in non-solvent based modified bitumens and asphaltics, and with EPDM systems. TPR-100, when used properly, is designed to yield finished products that are to meet *NFPA-253* and *NBSIR 75-950* flammability standards.

Endura® TPR-100 is easily dispersed in solvent-based systems and is readily mixed with molten modified bitumens.

Because of its high loading, Endura® TPR-100 achieves physical properties comparable to the base resin and modified flammability characteristics with a low letdown ratio. Endura® TPR-100 utilizes a halogenated flame-retardant system with antimony oxide synergists.

Typical Properties*

Property	Test Method	Result
Specific Gravity	ASTM-D-792	2.06
Melt Index, g/10 min	ASTM-D-1238 'G'	2.6
Recommended Usage Level(EPDM Roofing)		3%

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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