

Technical Data Sheet

Masterbatch for density reduction NBF-997A.

Masterbatch NBF-997A is a product in granule, the carrier is E.V.A. The product is formulated with Thermal Expandable Microsphere as a Chemical Foaming Agent

Characteristics

Physical appearance of material is soft whitish granules.

The main feature of this product is to react to thermal stress, resulting in a reduction of the product density that is being achieved. The softening point starts between 165°C and 175°C. Higher processing temperatures gradually increase the expansion up to 5-6 times the size of the granules with consequent decrease in density, weight and price. This masterbatch used in small percentage helps eliminate defects in injection molding, which retreats eddies and aesthetic defects.

Processing recommendations

The optimal use percentage has to be determined by preliminary tests but is typically between 2% and 4% on the total.

Recommended to use with thermoplastic polyurethane with hardness from 50 ShA up to 90 ShA with or without plasticizer.

It is recommended to add NBF-997A before moulding in the preparation of the mixture of granules to ensure optimum dispersion. It is also suitable to be used through a screw feeder.

For optimal processing and receiving of high-quality thermoplastic polyurethane it is recommended to dry material preliminary at 100-110C within 2 hours at desiccant dryer.

Packaging and storage

TPU NBF is supplied pre-dried in 20 kg moisture guarded sacks (40 per pallet, covered with plastic film).

Shelf life of products under recommended conditions in sealed containers: 24 months from date of manufacture.

Health and safety

Before processing or any other actions with material, all personnel should be well aware about safe handling with thermoplastic polyurethane. Production facilities where thermoplastic polyurethane is processed should be equipped with continuously operating forced ventilation.

Thermoplastic polyurethane is not explosive, not flammable spontaneously. Extinguishing: Powder-type fire extinguishers, foam fire extinguisher, do not use water jet. Products of processed thermoplastic polyurethane have no adverse effect on human health.

The manufacturer carry no responsibility for the consequences of non following to recommendations, including those related to the fact that consumers do not read the technical documentation and instructions of material usage. The information in this technical data sheet corresponds to the time of its publication. The manufacturer reserves the right to change the technical parameters of materials without the deterioration of quality in the course of technological progress, and for reasons related to the development of production. The company cannot list all possible applications of materials, so the consumer is responsible for determining the suitability of the product for a specific application. Recommended applications listed in the Technical Data Sheet require experimental verification at consumer, as beyond the control of the manufacturer are after sales conditions of storage, transportation and usage of products, especially when materials from different manufacturers are used together.

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