

Momentive Performance Materials

PRELIMINARY PRODUCT DATA SHEET

PEarlene* SiPC MB01

Introduction

PEarlene SiPC MB01 is a free flowing, pelleted silicone gum masterbatch with a 30 % loading of ultra high molecular weight silicone (polysiloxane) in a polycarbonate carrier.

Key Features and Benefits

- Improved cold impact strength of injection molded part.
- Lower surface friction of extruded part.
- Increased fabrication line throughput
- Reduced extruder torque.
- Reduced extruder head pressure.
- Reduced energy consumption during processing.

Applications

Added to a wide range of polycarbonates at concentrations up to 1.6% (as masterbatch), the product offers processing advantages as well as improved surface properties in extrusion and injection molding applications.

Typical Physical Properties

appearance:..... white to off white pellets
form :.....approx. 5 x 5 mm
siloxane content (wt. %) :.....30 +/-1
bulk density, g/l, @ 20 °C:.....approx. 0.65
MFI (2.16 kg load / 300 °C)23
volatiles (30 minutes @ 130°C - wt. %) :< 0.4

Data are average data. The actual values may vary. Product specifications need to be agreed upon individually.

Product Availability

PEarlene SiPC MB01 is available in 25 kg in PE bags per pallet 40 bags.

Processing Recommendations

The PEarlene SiPC MB01 is added to the formulation and typically processed on conventional equipment under the same processing conditions recommended for the base resins and/or compounds. No special conditions or process modifications are generally required. However, the PEarlene SiPC MB01 must be melt processed under conditions which will assure a high level of homogeneity in the final product.



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It should be noted that it may be necessary to increase the extrusion speed and reduce machine temperature settings to get the full benefit of the additional throughput which may become available when using this masterbatch.

Patent Status

Nothing contained herein shall be construed to imply the non-existence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Storage

There are no special precautions necessary in storing PEarlene silicone masterbatches. When stored at ambient temperatures below 40° C in factory sealed packages the expected shelf life is estimated to be 2 years from the date of manufacture. The product is not unusually sensitive to heat , but should be stored at room temperature (below 40° C).

Product Safety

When considering the use of any of Momentive Performance Materials products in a particular application, you should review our latest Material Safety Data Sheets and undertake appropriate testing to ensure that your intended use can be accomplished safely. For Material Safety Data Sheets and other product safety information, contact the Momentive Performance Materials - sales office nearest you. Before handling any of the products mentioned in the text, please obtain available product safety information and take necessary steps to ensure safety of use.

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