

Siloxane Masterbatch MB50-010

Siloxane Polymer (UHMW)

Multibase, A Dow Corning Company

Описание материалов:

Ultra-high molecular weight siloxane polymer dispersed in thermoplastic polyester elastomer.

DOW CORNING MB50-010 Masterbatch is a pelletized formulation containing 50% of an ultra-high molecular weight siloxane polymer dispersed in HYTREL. It is designed to be used as an additive in polyester elastomer-compatible systems to impart benefits such as processing improvements and modification of surface characteristics.

Liquid siloxane plastic additives have been used for several years to improve the lubricity and flow of thermoplastics. They are effective in this role although some difficulties have been experienced in the incorporation of liquids into thermoplastic melts without the use of specialized equipment. It has also been difficult to produce masterbatches with greater than 20% liquid siloxane because of processing difficulty and bleed problems.

The DOW CORNING® MB Series Masterbatches address these problems by supplying a high concentration of an ultra-high molecular weight siloxane as a dispersion in a dry pellet form in a variety of thermoplastics.

BENEFITS

When added to HYTREL or similar polyester elastomers at 0.1% to 1.0%, improved processing and flow of the resin is expected, including better mold filling, less extruder torque, internal lubrication, mold release and faster throughput. At higher addition levels, 1% to 5% siloxane, improved surface properties are expected, including lubricity, slip, lower coefficient of friction, and greater mar and abrasion resistance.

The DOW CORNING MB Series Masterbatches are expected to give improved benefits compared to conventional lower molecular weight siloxane additives, e.g., less screw slippage, improved release, a lower coefficient of friction, fewer paint and printing problems, and a broader range of performance capabilities. The coefficient of friction values of a PBT elastomer are lowered by an ultra-high molecular weight siloxane additive.

LIMITATIONS

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

HOW TO USE

DOW CORNING MB Series Masterbatches may be processed in the same way as the thermoplastics on which they are based. Sufficient DOW CORNING MB50-010 Masterbatch should be blended with virgin polymer pellets to give the desired siloxane level in the final product. DOW CORNING MB50-010 Masterbatch pellets can be added during compounding in a single screw extruder or added at the feed hopper during injection molding or extrusion.

Главная Информация

| | |
|----------------|---------------------------------|
| Добавка | Силиконовая смазка |
| | Дефолдинг |
| | Противоскользкий агент |
| Характеристики | Кошерная Сертификация |
| | Сверхвысокий Молекулярный вес |
| | Гладкость |
| | Отличная Печатающая способность |
| | Обрабатываемость, хорошая |
| | Распылитель |
| | Хорошая стабильность обработки |
| | Хорошая мобильность |
| | Хорошая стойкость к истиранию |
| | Устойчивость к царапинам |
| | Смазка |
| | Соответствие пищевого контакта |

Хорошая производительность при потере

Отличный внешний вид

| | |
|-------------------|--|
| Используется | Композитный Смешивание |
| Рейтинг агентства | VgVV неуказанный рейтинг Управление по санитарному надзору за качеством пищевых продуктов и медикаментов 21 CFR 177,260 |
| Внешний вид | Белый |
| Формы | Частицы |
| Метод обработки | Композитный Экструзия Литье под давлением |

Дополнительная информация

Siloxane Content: 50%Organic Resin: HYTREL®1, MI 11(Durometer D Hardness 63)Suggested Use Level (0.1 to 5% siloxane): 0.2 to 10%

| Иньекция | Номинальное значение | Единица измерения |
|--------------------------------------|----------------------|-------------------|
| Температура сушки | 80.0 | °C |
| Время сушки | 2.0 - 8.0 | hr |
| Рекомендуемая максимальная влажность | 0.20 | % |
| Экструзия | Номинальное значение | Единица измерения |
| Температура сушки | 80.0 | °C |
| Время сушки | 2.0 - 8.0 | hr |
| Рекомендуемая максимальная влажность | 0.20 | % |

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