



## Dow Corning® MB 50-011 Masterbatch

Dow Corning Corporation - Slip Agent / Lubricant / Mold Release / Processing Aid Masterbatch

Monday, November 4, 2019

### General Information

#### Product Description

Dow Corning® MB50-011 Masterbatch is a pelletized formulation containing 50% of an ultra-high molecular weight (UHMW) siloxane polymer dispersed in polyamide 6. It is designed to be used as an additive in most polyamide 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 (UHMW) siloxane as a dispersion in a dry pellet form in a variety of thermoplastics.

#### APPLICATIONS

- Additive in polyamide compatible systems

#### General

|                 |                                          |                               |                     |
|-----------------|------------------------------------------|-------------------------------|---------------------|
| Material Status | • Commercial: Active                     |                               |                     |
| Availability    | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America   | • North America     |
| Agency Ratings  | • FDA 21 CFR 177.1500                    | • FDA 21 CFR 177.1500(b)(6.1) | • FDA 21 CFR 181.28 |

### ASTM & ISO Properties <sup>1</sup>

| Additives General      | Nominal Value                                                                                 | Unit         |
|------------------------|-----------------------------------------------------------------------------------------------|--------------|
| Additives Category     | Masterbatch -- Slip Agent /<br>Lubricant / Mold Release /<br>Processing Aid -- Silicone-based |              |
| Carrier Resin          | Polyamide or copolymer (Nylon)                                                                |              |
| Recommended for Use In | Polyamide or copolymer (Nylon)                                                                |              |
| Forms                  | Pellets / Granules                                                                            |              |
| NFPA 704 Safety Rating |                                                                                               |              |
| 1                      |                                                                                               | Flammability |
| 0                      | •                                                                                             | Health       |
|                        | •                                                                                             | Reactivity   |

| Additives Physical        | Nominal Value | Unit              |
|---------------------------|---------------|-------------------|
| Density                   | 1.05          | g/cm <sup>3</sup> |
| Additive Concentration    | 50            | %                 |
| State at Room Temperature | Solid         |                   |
| Chemical Description      | Siloxane      |                   |

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.