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# Silicone

for


# Thermoplastics

enhanced

performance



### What are Siloxane Masterbatches ?



Dow Corning Siloxane Masterbatches are pelletized micro-dispersions of special ultra high molecular weight siloxane polymers, in various different plastic carrier resins at loadings of up to 50%.

### How are Siloxane Masterbatches produced ?



Siloxane Masterbatches are produced in solid form for ease of use. They typically contain 25 - 50% ultra high molecular weight siloxane polymers (>15 million cSt) dispersed with an average particle size of 5 microns in various thermoplastics.

### Let's talk about performances ...

The siloxane polymer component of the Siloxane Masterbatches eliminates blooming as well as migration of fluids and other organic plastic additives, which can occur when using lower molecular weight silicone materials.

These unique masterbatches are typically used:

- to modify the surface of finished plastic parts for friction management
- to improve mar resistance and wear resistance
- as process aids to increase melt flow for cycle time reduction

Low concentrations (0.1 - 1.0%) of these siloxane masterbatches offer:

- increased compounding efficiency
- improved polymer flow and mold filling
- cycle time reduction
- lower extruder torque
- easier mold release
- improvement in touch and feel

Concentrations of 1% to 5% siloxane can provide significantly improved surface properties, including better lubricity, gloss and slip, and improved mar resistance and scratch resistance. The masterbatch can significantly reduce the coefficient of friction of a polymer without affecting post-finishing operations such as printing,

**solutions**



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