



MULTIBASE™ MB40-006

Silicone Masterbatch

DuPont MULTIBASE™ MB40-006 Masterbatch is a tribological modifier for polyacetal based systems.

This additive is an easy to handle pellet.

DuPont MULTIBASE™ MB40-006 Masterbatch enables you to achieve lower coefficient of friction compared to standard PTFE. Typical addition levels between 2 and 5wt% show highly efficient coefficient of friction reduction by at least 20% vs corresponding 15-20wt% PTFE formulations against POM and stainless steel. DuPont MULTIBASE™ MB40-006 masterbatch allows you to recover lost mechanical performances (tensile and impact) vs standard PTFE and reach initial performances of neat polyacetal.

DuPont MULTIBASE™ MB40-006 Masterbatch is also highly efficient at suppressing stick-slip phenomenon at low speed when used in applications against steel following VDA 230-206 norm.

DuPont MULTIBASE™ MB40-006 Masterbatch suits for long term applications.

Applications

Recommended for applications requiring long term COF reduction. Typical examples are bearings, gears and conveyor belts, window lifting systems and steering column sensors, housings and roller shutter systems, kitchen and household appliances and sports equipment

Benefits

When used in POM compounds, DuPont MULTIBASE™ HMB-1103 Masterbatch demonstrate below benefits when compared to standard 20wt% PTFE formulation:

- 20% COF improvement (against POM and steel)
- Stable long term COF reduction against several material such as e.g. POM or Steel
- mechanical performances improvement
- Efficient at low loading's
- Contribution to visual and aesthetic
- Abrasion and mar resistance improvement
- Injectability improvement
- Processability improvement

Other benefits

- Easy to handle pellets
- Suitable for low and high speed applications • Suitable for POM-C and POM-H
- No stick-slip development on high speed applications.



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Other properties

Density	1230 kg/m ³	ISO 1183
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Storage and stability

Shelf life	48 months
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Characteristics

Compatibility	Polyacetals
Food contact	FDA 21 CFR

Additional information

How to use	DuPont MB40-006 masterbatch addition levels are recommended between 2 and 5wt%. It can be used in classical melt blending process like e.g. Twin screw extruders. A physical blend with neat POM pellets and feed in OD is recommended. It can also be used in direct dilution on injection press.
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