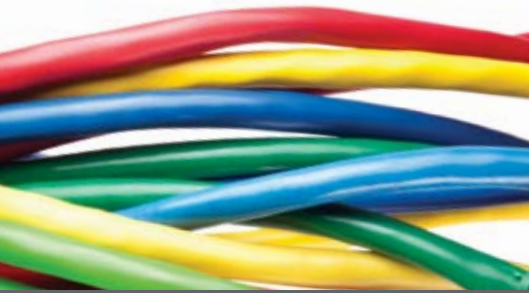




DOW CORNING

Plastics and Rubber
Solutions

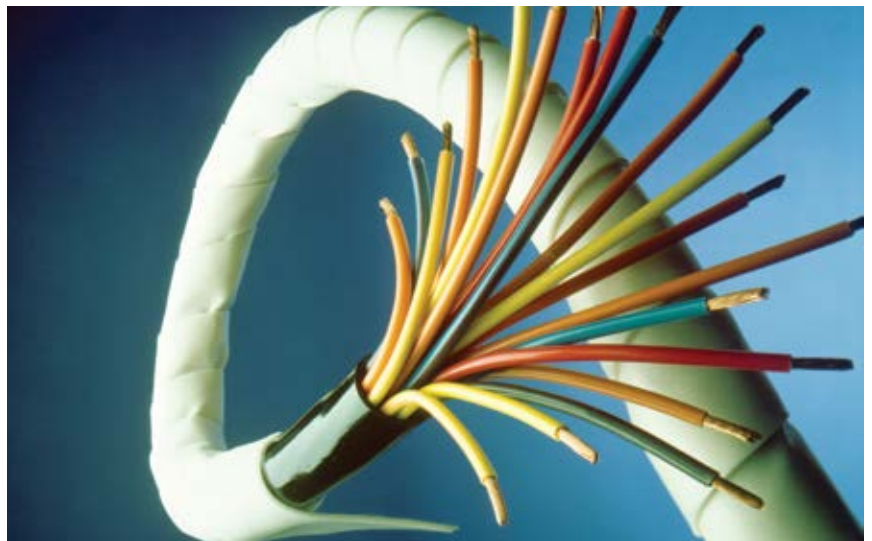


Dow Corning® MB25-502 Masterbatch

Best-in-class processing for wire and cable at a competitive price

Features

- Improved processability
- Affordable
- Compatibility with highly loaded PE compounds
- Global availability
- Supplied as easy-handling, free-flowing pellets



Wire and cable insulation and jacketing have traditionally been manufactured with chlorinated polymers such as polyvinyl chloride (PVC), known as self-flame retardant. Today, polyethylene (PE) is replacing PVC in many wire and cable applications. However, PE requires heavy loadings of mineral flame retardants such as halogen-free metal hydrates (aluminium hydroxide, magnesium dihydroxide) to meet regulatory requirements. These minerals often make up 60 to 70 percent (by weight) of the PE compound.

High filler loadings have a demonstrated negative effect on processability, including reduced screw torque that slows down throughput and uses more energy, and increased die build-up and pressure that require frequent interruptions for cleaning.

To overcome these issues and optimize throughput, wire and cable insulation and jacketing extruders incorporate processing aids. Until now, they were forced to choose between two alternatives:

1. Expensive, over-engineered additives that delivered unneeded properties; or
2. Lower-cost solutions with average performance



Advantages

- Delivers best-in-class processability
- Increases throughput by up to 110%
- Reduces extruder screw torque by up to 30%
- Limits die pressure build-up and plate-out
- Saves money with competitive pricing and low loadings (0.5% to 1.0%)

Target Applications

- Mineral-filled PE compounds used in wire and cable insulation and jacketing

Target Customers

- Wire and cable converters
- Wire and cable processors

Dow Corning[®] MB25-502 Masterbatch is a new silicone-based technology that combines the best of both options: best-in-class processability at a competitive price. This new product for highly loaded PE compounds (LDPE, LLDPE and XLPE) has been shown to boost throughput significantly compared to compounds containing no processing aids. *Dow Corning*[®] MB25-502 Masterbatch achieves this higher throughput by decreasing extruder torque and minimizing die build-up and pressure.

Cost-wise, *Dow Corning*[®] MB25-502 Masterbatch is priced competitively with existing processing aids. For additional savings, the material uses lower loadings than competitive additives.

Advanced new silicone masterbatch technology from Dow Corning can benefit wire and cable compounders and manufacturers by enhancing productivity through a combination of faster throughput and fewer interruptions.

Many Solutions. One Source.

A longtime global leader in developing innovative silicon-based solutions, Dow Corning offers a variety of plastics additives and ready-to-use materials that help solve your needs in terms of processing, reinforcing materials and enhancing properties. From fluids to pellets, we help simplify access to the uniqueness of silicone technology.

To learn more about Dow Corning's wide range of plastics and composites additives and ready-to-use silicone-based materials, visit dowcorning.com/plascomp, email the Plastics team on plastics@dowcorning.com or go to dowcorning.com/ContactUs for a contact close to your location.

Images: AV02632, AV16930

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