

Color-MB for E-Mobility Applications



Electromobility is the future of automotive transportation. And like any growing industry, it has developed important safety and regulatory requirements. One such requirement pertains to the need to color-mark high-voltage polymer-based vehicle components. This warning recognition is established via the color orange – specifically RAL 2003/2008. The challenge lies in creating plastic components that can maintain their orange color throughout the vehicle's entire lifecycle, while regularly exposed to high temperatures, without the risk of gradually turning from orange to brown.

Tosaf has set a worldwide benchmark with a color masterbatch designed for wire and cable injection molding, which complies with e-mobility regulations and can be applied on e-vehicle connectors. These color masterbatches meet RAL 2003 requirements for polyamides (PA6 and PA66), polypropylene (PP) and polybutylene terephthalate (PBT). The PA masterbatches were successfully tested at 130° C for 1000 hours without darkening.

Advantages:



Long-lasting orange color - even in extreme heat



Easy to use



Can be tailored to PBT, PP, PA6 and PA66 specifications



All grades are available with or without a laser marking additive for identification purposes



Your notes:

