

TOUGHBLEND®

Colour Image Plastic Compound Sdn Bhd (Co.No. 627104-T)

CIPC®

Plastic Technologies Enlighten Life



Reinforced Compounds 结构增强改性塑料

Toughblend® compounds are made from a wide selection of base resins blended with fillers such as glass fiber, glass beads and carbon fiber. Toughblend® compounds are an excellent alternative to metal in applications for products requiring improved mechanical properties, special toughness, dimensional stability, temperature and chemical resistance. As compared to neat resins, Toughblend® offers spectacular improvements in terms of tensile strength, heat deflection temperature and coefficient of linear thermal expansion. As compared to metal, Toughblend® allows product engineers more freedom to design injection molded parts with the benefits of lighter part weight, excellent corrosion resistance, electrically non conductive. Most Toughblend® compounds also come with some other properties such as flame retardant, lubricated and colour.

Toughblend®改性塑料是指在基体树脂中均匀混合玻璃纤维、玻璃微珠和碳纤维等已达到客户在成品研发的结构物性需求。结构增强改性塑料是一种很好的金属替代材料，运用于对强度、韧性、尺寸稳定、耐热和抗化学作用方面有要求的领域。

结构增强改性塑料在刚性、抗拉强度、热变形、承受负荷能力等方面比纯树脂有明显的改善。与金属比较，这些材料可以让设计工程师任意选用成本低、重量轻、抗腐蚀、绝缘的注塑零件完成产品设计。大部分的结构增强改性塑料还可以结合其他物性，如阻燃性、耐磨性和多种颜色选择。

特点：强度高，刚性好，耐热，低收缩，综合强度高，韧性好，使用温度范围广，耐翘曲。

应用：车灯外壳，引擎护盖，电动工具外壳和零件，汽车把手，打印机内部零件，汽车电池托盘，电器骨架，换挡器壳，火车铁路分隔片，工业篮子把柄。