

Cordless Hammer Drill from Bosch made of Ultramid®

Case Study

For its new model GBH 36 V-LI Compact Professional especially lightweight and almost vibration-free cordless hammer drill, Bosch selected the resin Ultramid® B3EG7. The particularly rigid and impact-resistant glass fiber-reinforced grade of polyamide 6 from BASF can withstand a continuous swinging load applied over a long period of time.

The front section of the impact mechanism is largely decoupled from the handle section at the back. While an elastomer at the top cushions the motion of the impact mechanism, the plastic housing on the handle below provides a joining function. As a result the vibrations reaching the arm are reduced to a minimum.

Especially the impact resistance and durability of Ultramid® B3EG7 allow it to fulfill these requirements for the entire service life of the hammer drill. The resin is available worldwide and furthermore UL-listed (Underwriters Laboratories), thus it can be used in power tools intended for the American market.

