

# AGS TECHNOLOGY CASE STUDY: THE WORLD'S FASTEST RECYCLED PLASTIC PARTS

## PRODUCT PROFILE

**Industry:** Automotive-Battery Electric Vehicle (BEV)  
**Application:** Wire Channel Guides  
**Material Description:** Injectoblend FABSPC003 (PC+ABS)  
**Requirements:** • Impact Strength • Heat Resistance • Recycled Content



## CUSTOMER ISSUE

An upstart battery company with years of experience supplying batteries for Formula E racing cars designed an all-new BEV to take on the upper echelon of electric (Tesla Model S) and internal combustion engine (Mercedes S Class) vehicles. With a focus on performance, luxury, and sustainability this new BEV company was looking for cutting edge suppliers to help deliver their vision.

## AGS INJECTION MOLDING SOLUTION

Working closely with purchasing, engineering, and supplier quality personnel, AGS Technology offered direct injection molding of its 100% recycled grade of Injectoblend™ resins for various functional black plastic parts throughout the car. Plastic wire channel guides were identified as excellent candidates for AGS recycled material given their location and end-use requirements. Wire channel guides help direct, retain, and protect the numerous cable bundles throughout the chassis and Injectoblend™ FABSPC003 provides toughness, rigidity, thermal properties, and 100% recycled content. On a tight timeline, AGS designed, built, and managed new tools, check fixtures, and assembly equipment to support launch timing. The result is the world's fastest production vehicle with the following specifications: 1200 HP, +200 mph, 0-60 mph in 1.95 seconds, EPA mileage >500 miles, 0 emissions.

