The battery pack is a stressed member and weighs 960 lbs/440 kg. It accounts for 23% of the car's value. The SMC cover is a large light weight cover that is integral to the pack. A new light weight high glass loaded Vinyl ester/Polyester blend SMC was formulated to meet the high speed stress strain requirements and, for the first time, be incorporated as part of the structural element. A 30% weight savings and a 40% cost savings, over alternative manufacturing methods (steel/aluminum stampings) was achieved.