



Safety

Bumper Beam with Integrated Crash Can

OEM/Vehicle

Geely Auto Group

2016 FE7/FE5

System Supplier

Xinli

Material Processor

Xinli

Material Supplier

SABIC

Resin

XENOY 1103 PC/PBT

Tooling/Equipment Supplier

Xinli



This is a global industry first use of a single-piece, all-plastic, beam integrated with crash cans to meet ECE R 42 low-speed damageability and RCAR impact for enhanced crash performance. A 50% weight savings vs. the incumbent 7-piece metal design was achieved. An estimated 10% per part was saved on direct costs. A cost avoidance savings resulted by eliminating the need for welding and replacing seven stamping tools with one injection molding tool.