

AUTOMOTIVE

ZOLTEK is a large tow carbon fiber supplier for **high-volume automotive applications**. With a fully integrated process chain from precursor to carbon fiber and downstream intermediate products such as milled & chopped fibers, non-crimped fabrics and pultruded profiles, ZOLTEK can guarantee a **long-term supply** on a global scale. Through our **wide range of sizings** for all major thermoset and thermoplastic polymer classes, ZOLTEK is offering **carbon fiber standard products** for the automotive sector on an industrial cost level.



Processing Support | Global Sales Force | Global Availability
Low Cost Producer | Fiber Products For Thermoset & Thermoplastic
Composites Fiber Products For All Major Manufacturing Technologies

TECHNICAL SUPPORT FROM ZOLTEK

ZOLTEK has experience in fiber handling, fiber feeding and conversion processes that turn carbon fibers into composite parts and offers technical support for all value steps in the supply chain for manufacturing of automotive parts. We have a wealth of experience in manufacturing processes such as compounding, fabrics manufacturing, Resin Transfer Molding, Sheet Molding Compound, Pultrusion.

RESIN TRANSFER
MOLDING

SHEET MOLDING
COMPOUND

PULTRUSION

RESIN TRANSFER MOLDING (RTM)

ZOLTEK offers Carbon Fiber Non-Crimp Fabrics with Fiber Sizings Specifically designed for the HP-RTM Process which provide excellent out of mold surface quality.

Our portfolio of Non-Crimp Fabrics and available sizings for Epoxy, Polyurethane, and Polyamide resins, provide Engineers with an extensive range of design option for HP-RTM Applications.

Polymers: Epoxy, Polyurethanes, Polyamides

Achievable Cure Times: Epoxy, Polyurethanes: 5 minutes
Polyamides: 5-10 minutes

SHEET MOLDING COMPOUND (SMC)

Carbon fiber SMCs are ideal for semistructural applications. Suitable applications include: under body, under hood, structural reinforcements, and interior structures.

ZOLTEK has experience working with a variety of sizing products. ZOLTEK experts are on hand to assist development teams with tow handling, tow chopping, and wet out.

PULTRUSION

Pultrusion is a cost-effective, continuous process for producing fiber-reinforced composite parts. PX35 carbon fiber tows are fed into our proprietary impregnation and curing process that creates smooth carbon fiber laminates that provide efficient laydown when building thickness. The specific fiber alignment achieved with pultrusion delivers consistently better overall properties in laminates than any other composite manufacturing process.