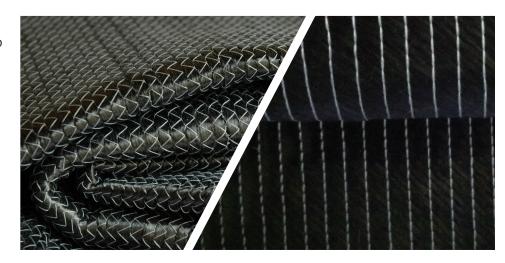
## **HP-RTM PROCESS**

## **DESCRIPTION**

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

## **ZOLTEK PX35 FABRICS**

ZOLTEK PX35 Unidirectional Fabrics (150-300 gsm) are sized specifically for Epoxy, Polyurethane, and PA applications

	STRENGTH (MPa)	MODULUS (GPa)	TEST METHOD
0° Tensile	1713	129	ASTM D3039
90° Tensile	51	10.1	ASTM D3039
0° Compression	981	110	Boeing ASTM D695
90° Compression	227	18	Boeing ASTM D695
0° Flex	1315	64	ASTM D6272
In Plane Shear	85	4.2	ASTM D3518

Mechanical properties generated with UD 150gsm ZOLTEK PX35 fabric Average values shown. Typical Fiber Volume Fraction (FVF) is 55%.

## **ABOUT ZOLTEK**

ZOLTEK helps companies use our commercial-grade carbon fiber in high-volume automotive applications. Our growing range of intermediate products are well-suited for advanced automotive processing technologies. With manufacturing capabilities in Europe, the United States and Mexico, as well as, a quickly expandable capacity, ZOLTEK has become the supplier of choice for high volume auto applications.

