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# SHIMTEQ™ NCF D300C

## Double Bias Carbon Fiber Non Crimp Fabric

### SUMMARY

NCF D300C is a single fabric containing 2 layers (orientated +45° and -45°) of continuous carbon fiber (CF) stitched by polyester. The material offers off-axis reinforcement with excellent strength and intermediate modulus for composites impregnated by matrix resins. NCF D300C has a unique feature for a very stable composite material, i.e. its non-crimp configuration, which retains the alignment of the reinforcing fibers during molding. The material also offers a path for resin impregnation via the stitching holes and the well-aligned fiber orientation.

### SPECIFICATIONS

Total fiber areal weight [g/m <sup>2</sup> ]	303	Material configuration	Sheet roll
Reinforcing fiber areal weight [g/m <sup>2</sup> ]	300	Package configuration	Cardboard
Stitching yarn areal weight [g/m <sup>2</sup> ]	3	Fabric width [mm]	1000
Reinforcing fiber tensile modulus [GPa]	230	Fabric length [m]	50
Number of layers [ply]	2	Roll weight [kg]	15

### MATERIAL CONFIGURATION

	Material	Configuration
Reinforcement	CF	[+45/-45]
Stitching	Polyester	Chain

### APPLICATION EXAMPLES

Wide range of light weight and/or high mechanical-/physical-strength-demanding fields (e.g. automotive and aerospace) molded by infusion, RTM, and press-molding.

### APPLICABLE MATRIX RESINS

Epoxy, Unsaturated polyester, Vinyl ester, Urethane, etc.

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