

Product Data Sheet

DRY SKU: TW01-W42-331
PREPREG (NEWPORT NB301) SKU: TW01-W42-331-NB301
TOOLING PREPREG (SHD LTC216) SKU: TW01-W42-331-LTC216



Product Description

- SUPERCOMP TW DRY is a carbon fiber fabric coated with 150 μ m milled carbon fibers that are aligned in the Z-axis (orthogonal to the fabric)
- SUPERCOMP TW DRY provides excellent dimensional stability and durability, three-dimensional conductivity and surface finish, and enables both ease of ply kitting and the resin infusion of thick parts
- This product **does not** contain any nanomaterials or nanofibers

Process Compatibility

- SUPERCOMP TW DRY can be used in resin transfer molding (RTM), vacuum-assisted RTM (VARTM), and wet layup
- Contact Boston Materials for any questions about the compatibility of SUPERCOMP products for your application

Physical Properties

	Supercomp 1015 Plain Weave	Unit
Ply Thickness @ 55% FV	0.34 [0.013]	mm [in]
Fiber Areal Weight	316	g/m ²
Total Areal Weight	331	g/m ²
3K 2x2 Twill Weave (T300)	196	g/m ²
Dry Stabilized ZRT Film (PX30)	120	g/m ²
Light Polyester Adhesive Veil	15	g/m ²

RTM & VARTM Processing Parameters

Producing a 12" x 12" x 0.110" panel made with SUPERCOMP 1015 PW DRY using **RTM (resin transfer molding)**:

- A mixture of EPON[™] 862 epoxy resin and EPIKURE[™] W hardener was used as the matrix
- The resin was held at approximately 100F prior to injection
- The preform wet out in approximately 2-3 minutes using 30-40 psi injection pressure

Producing a 12" x 12" x 0.110" panel made with SUPERCOMP 1015 PW DRY using **VARTM (vacuum-assisted RTM)**:

- A mixture of EPON[™] 862 epoxy resin and EPIKURE[™] W hardener was used as the matrix
- Resin was held at approximately 100F prior to injection
- The preform wet out in approximately 18 minutes using atmospheric pressure

The infusion time for RTM and VARTM is dependent upon the flow rate, the resin, and the geometry and volume of the mold

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The information provided herein is, to the best of our current knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control and there are many factors affecting application and processing of our product, we make no guarantee of results, and assume no liability for damages incurred by following these suggestions and using our products. We strongly recommend processors carry out their own tests and investigations.