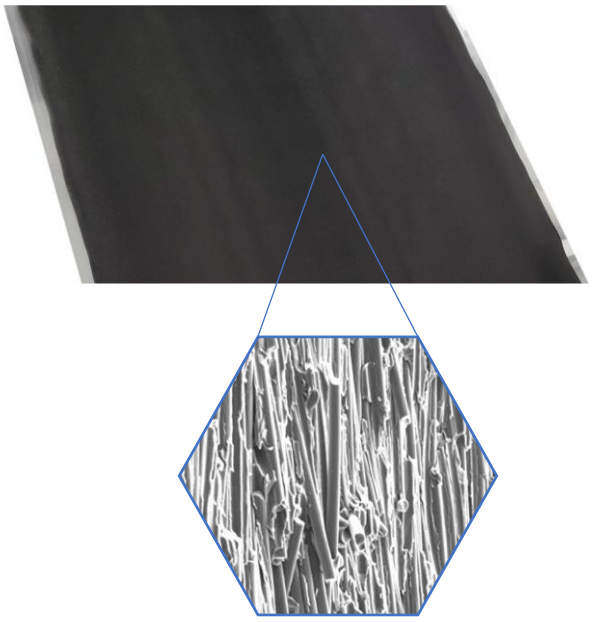
ZRT™ Prepreg

Technical Data Sheet

SKU: ZRT-W42-120



Quick Facts

- Conductive & bonding films originally developed for electronics, wind & aerospace
- 150µm milled carbon fibers are aligned in the Z-axis (i.e. orthogonal to the film)
- Impregnated with the popular Newport 301 Resin
- High strength bonding
- Localized thermal and electrical conductivity enhancements

Applications

- Recreational Sports, Electronic Enclosures, Hydrogen Fuel Tanks and more
- Vibration damping layers
- Surfacing films for composite tooling and wear components
- Hole and fastener reinforcement
- Low-CTE bonding films
- Thermal management layers
- Electromagnetic shielding layers

Physical Properties

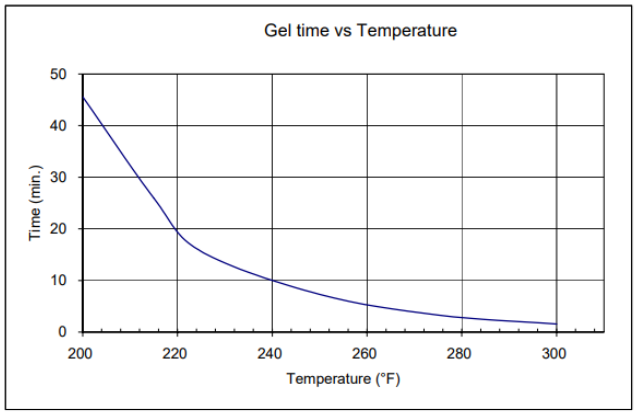
	ZRT	Unit
Z-Axis Fiber	PX30, 150µm, Milled	-
Z-axis Fiber Areal Weight*	110	g/m^2
Total Weight	183	g/m^2
Resin Content	40	% by weight
Resin Type	Newport 301	-
Cure	250	°F

*Other areal weights available upon request

Compatibility

ZRT prepregs can be used in all processes where traditional prepreg is used, including compression molding, autoclave, or out-of-autoclave processing. Contact Boston Materials for any questions about the compatibility of Supercomp products for your application.

Processing Conditions – Newport 301



- Newport 301 can be cured at temperatures from 250°F to 300°F depending on service temperature requirements.
- Low, medium, and high pressure molding techniques may
- be used to cure 301 resin.
- Recommended cure cycle is 50 psi; 3°F/min ramp to 275°F;
- hold for 60 minutes, cool to <140°F

- Gel Time (275°F): 3-5 minutes
- Specific Gravity: 1.22 ± 0.02
- Tg (DMA, E'): 265o F.
- CTE =ppm/°C 60 ± 10 (below Tg)

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