TCR Prepregs

Traditional Prepreg vs TCR Prepreg
Traditional Prepregs

- Require low-temperature storage to slow resin advancement
- Limited tack and flow flexibility due to staging
- Manufacturing process adjustments maybe necessary as resin starts to advance
- Materials re-qualifications for shelf-life extensions may be necessary
- Shelf life is typically 3 months or less @ 40° F
Traditional Prepreg Resin

- Acceptable Processing Window
  - Lot A
  - Lot B

- Low Flow (poor knitting)
- High Flow

- Cold Box Storage (months)
- Warm-up / Layup (hours)
- Cure (hours)

Time

Viscosity
• No shelf-life considerations

• Wide range of flexible processing temperatures
  • 250°F (121°C), 4 hours
  • 290°F (143°C), 2 hours
  • 310°F (154°C), 1 hour

• Resin control
  • Consistent resin content
  • Can be tailored to customer process and requirements
  • Improves surface finish
TCR™ Prepreg Resin

Viscosity

Small Lot-to-Lot Variability

Consistent Flow in Cure

Ambient Storage (months)

Layup (hours/days)

Cure (hours)

Time
Handling and Care

- No specialized handling equipment or facilities required
  - Store at warehouse ambient 75°F (23.9°C)
  - Sealed in plastic wrap
  - Impervious gloves are recommended
  - Eye protection should be worn during industrial operations
  - No specialized ventilation systems required
Filament Winding
Oven or Autoclave Cure
Summary

- TCR Composites has developed and is marketing a unique high-performance prepreg system

- Storable at ambient temperatures

- TCR™ Prepregs provide an environmentally friendly alternative to wet-resin application

- Available in a wide variety of tow, woven fabrics, UD-tape and braided sleevings

- Resin system tailorable to suit process requirements
TCR Composites Business Contacts

Craig Schiffman  
Director, Marketing & Sales  
TCR Composites  
219 North 530 West  
Ogden, UT 84404  
Tel: 801.622.3842  
Fax: 801.622.3809  
craig.schiffman@tcrcomposites.com

Amber K. Lefler  
Manager, Marketing & Sales/ECO  
TCR Composites  
219 North 530 West  
Ogden, UT 84404  
Tel: 801.622.3802  
Fax: 801.622.3809  
amber.lefler@tcrcomposites.com

Chad Oliver  
Manager, Marketing & Sales  
TCR Composites  
219 North 530 West  
Ogden, UT 84404  
Tel: 801.622.3841  
Fax: 801.622.3809  
chad.oliver@tcrcomposites.com

Shaun Baldwin  
Manager, Marketing & Sales  
TCR Composites  
219 North 530 West  
Ogden, UT 84404  
Tel: 801.622.3805  
Fax: 801.622.3809  
Shaun.baldwin@tcrcomposites.com

www.tcrcomposites.com

1-800-TC-RESIN or +1.801.622.3800