



TCR Composites

TCR™ Prepreg Braided Sleeves Delivering High-Performance Prepreg Solutions



TCR uses epoxy resins specifically designed for braided reinforcements made of carbon, fiberglass, aramid or any combination. All formulations are storable at room temperature. Refrigerated shipping and storage are not required.

Braid is a system where yarns are intertwined. No two yarns are twisted around each other. Braid is also defined as a family of fabrics continually woven on the bias. Tubular sleeveings are the most common type of braid. Braid may be used for aerospace, medical, recreational and industrial applications.

During composite fabrication, tubular braids are opened up and applied to a molding tool or core. Then they are consolidated with stretch tape, vacuum bags, or matched two-piece mold.

Prepreg Braided Sleeves Packaging / Shipping Guidelines		
Plastic Reel/Core Size	Unit Weight	Packing
Core: 5.5" dia. x 6" wide Flange: 14" diameter	1-25 lbs	Sealed in moisture-resistant poly bags
Core: 139.7mm dia. x 152.4mm wide Flange: 152.4mm diameter	0.45-11.3 kgs	
Box Size	Units per Box	Max Box Weight
25"x25"x15"	1	~25 LBS
635 x 635 x 381 cm	1	~11.3 KGS
Dry Ice and Temperature Recorders are Not Required		

Prepreg Braided Sleeves Characteristics	
Braid Type	Carbon, Glass, Aramid, Hybrids
Style	Biaxial, +/-45°
Weights	Light, Medium, Heavy (3K, 6K, 12K)
Resin Content	Controlled to +/-3%, tailored to customer requirements
Resin Type	See Available Resin Systems chart on this page
Resin Tack	Low (easily manipulated for layering and complex shapes)
Diameter / ID	0.25"-28" / 6.4mm-711mm
Contact TCR to discuss specific prepreg braided sleeve needs	

Available Resin Systems			
Formulation	Resin Tg (DMA)	Recommended Cure Cycle Hold Time	Typical Applications
UF3325	255F / 124C	1 hr @ 310F / 154C	Sporting goods, rocket motor cases, high-pressure cylinders, commercial applications
UF3330	248F / 120C	1 hr @ 310F / 154C	Over-braiding, large structures requiring long production time - very low tack system
UF3357	356F / 180C	2 hr @ 356F / 180C	High-temperature applications
UF3360	331F / 166C	1 hr @ 350F / 177C	Moderately-high-temperature applications
See individual Resin Data Sheets for complete cure cycle information			

TCR Composites is certified to ISO9001-2015. TCR is a trademark of TCR Composites, Inc.

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