

## 14076-D High Modulus Unidirectional Prepreg

### Product Description

Rock West Composites PROPrep™ is a heat activated carbon fiber + epoxy system recommended especially for fiber-reinforced composite parts. This prepreg exhibits great mechanical strength and incredible stiffness properties.

### Handling, Safety and Storage

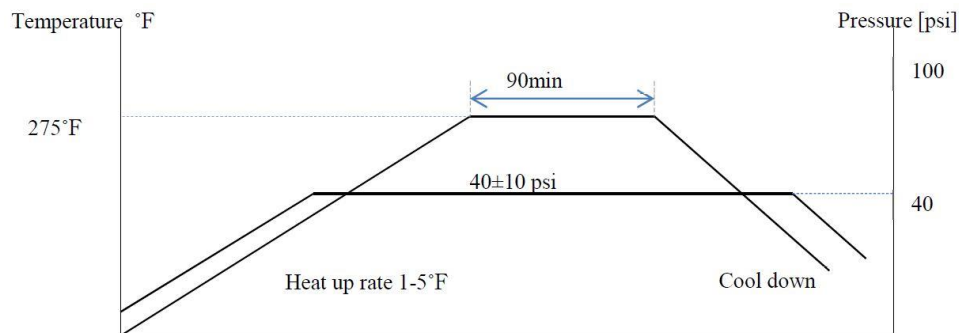
- Gloves and safety glasses are recommended for user's personal protection.
- When removing from freezer keep sealed until fully thawed.

### Material Specification (Composite)

Physical Properties	
Fiber	M40J or Equivalent
Resin	250F Epoxy
Shelf Life (°C/°F)	6+ months (@ ≤-18°C / 0°F) 1 month (@ 20°C / 68°F)
Gel Time @ 135°C / 270°F	3 – 6 minutes
Tg Glass Transition (°C / °F)	130 ± 10 °C / 266 ± 18 °F

Typical Composite Mechanical Properties (0° orientation) @ 23 °C		
Tensile Strength (MPa)	2500	ASTM D 3039
Tensile Modulus (GPa)	226	
Comp. Strength (MPa)	1270	SACMASRM1R-94
Comp. Modulus (GPa)	na	
Flexural Strength (MPa)	1560	ASTM D 790
Flexural Modulus (GPa)	190	

### Processing



- Pressure required for adequate consolidation
- Heat up (ramp) rate is listed as an acceptable range, in degrees F per minute
- Laminates cure for 90 min. @ 275 °F or longer at lower temperatures



**NOTE:** The information contained above is believed to be reliable and only for the reference without any effective guarantee for the application of the user. The user is responsible to determine the suitability for the user's application and the reliability of the products. Rock West Composites will not accept claim of warranties of the fitness or reliability for a particular purpose, especially the liability for consequential damages of end products.