

UNIPREG® 100 G/SQ M



unipreg® TECHNICAL DATA SHEET



TOW PROPERTIES:

	US Units (English)	SI Units (Metric)
Tow	Zoltek Panex® 35 Continuous Tow	
Tensile strength	600 Ksi	4137 MPa
Tensile modulus	35 Msi	242 GPa
Elongation	1.5 %	1.5 %
Density	0.065 lb/in ³	1.81 g/cm ³
Filament Diameter	0.283 mils	7.2 µm
Yield	400 ft/lb	270 m/kg

FABRIC PROPERTIES:

	US Units (English)	SI Units (Metric)
Area weight	2.95 oz/yd ² (+0.06oz/yd ²)	100 g/m ² (+ 2 g/m ²)
Standard production width	19.69 in (± 0.1181 in)	500 mm (± 3 mm)
Maximum production width	23.62 in (± 0.1181 in)	600 mm (± 3 mm)
Laminate thickness	0.003937 in (± 2.5 %)	0.10 mm (± 2.5 %)
Core diameter	11.81 in	300 mm
Core length	27.56 in	700 mm
Curing temperature	176 °F - 302 °F	80 °C - 150 °C
Tg	158 °F - 284 °F	70 °C - 140 °C
Resin system	Epoxy	
Shelf life at ambient temperature (20 °C)	4 months	
Shelf life at -18 °C	18 months	

Typical properties of the composite laminate made from Unipreg®140:

Tensile Strength	EN ISO 527-4	1800 MPa
Tensile Modulus	EN ISO 527-4	139 GPa
Flexural Strength	EN ISO 14125	1670 MPa
Flexural Modulus	EN ISO 14125	115 GPa
ILS Strength	EN ISO 14130	73 MPa
Density	EN ISO 1183	1.57 g/cm ³

* This information is based on our present state of knowledge. UNICARBON® cannot guarantee that the data listed above will be achieved with other processes.