

UNIPREG[®] 150 g/m²

Technical Data Sheet

UNIPREG[®] made of Zoltek Panex 35 tow (50K)

Tow properties:

Tensile Strength	4130 Mpa (SI units) 600 Ksi (US units)
Tensile Modulus	242 Gpa (SI units) 35 msi (US units)
Elongation	1.5%
Density	1.82 g/cc

Area weight (dry fabrics)	150 g/m ² (+ 2 g/m ²)
Production width	standard 500 mm (± 3 mm) max 600 mm
Laminate thickness	0.15 mm (± 2.5 %)
Resin content	25...40 % (± 1 %)
Resin type	Epoxy
Core diameter	300 mm
Core length	700 mm
Self life:	at ambient temperature (20°) 4 months at -18° 18 months
Curing temperature	80°C - 150°C

Typical properties of the composite laminate			
Tensile strength	EN ISO 527-4	1800	MPa
Tensile modulus	EN ISO 527-4	139	GPa
Flexular strength	EN ISO 14125	1670	MPa
Flexular modulus	EN ISO 14125	115	GPa
ILS strenght	EN ISO 14130	73	MPa
Density	EN ISO 1183	1.57	gcc

* possibility to fix 76 dtex polyester scrim (3.5g/m²) on 1 or 2 sides (to keep together the carbon structure)