

Plain Carbon Cloth

Property	Unit	Value
Fiber Type	-	Cloth
Microporous Layer	-	None
Thickness at 1 PSI	microns (mils)	356 (14.0)
Basis Weight	g/m (oz/yd)	132 (3.9)
Weave Count - Warp	per cm (inch)	19.3 (49)
Weave Count - Fill	per cm (inch)	18.5 (47)
Flexural Strength	ksi (MPa)	50 (345)
Flexural Modulus	msi (Gpa)	7.5 (51.7)
Interlaminar Shear	ksi (MPa)	5.0 (34.5)
Density	g/cm ³	1.5
Fiber Volume	%	50
Cured Ply Thickness	microns (mils)	102 (4.0)
Yarn Filament Properties		
Diameter	microns	7.5
Cross Section		Round
Density	g/cm ³	1.75-1.77
Surface Area	g/cm ²	0.62
Tensile Strength	kN/cm ² (ksi)	192.5 (279)
Elongation at Break	%	0.72
Electrical Resistivity	ohm-cm	1.1 x 10 ₃
Thermal Oxidative Stability	wt loss/hr @500C in air	< 1.0
Carbon Content	%	99.5