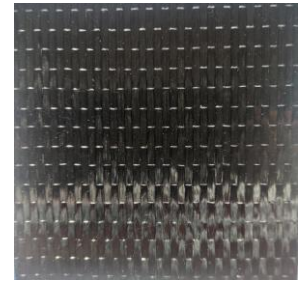


### Characteristics of Carbon fiber 300gr

- \* High strength & modulus : As a result of the basic reinforcement material being evenly arranged carbon fibers, It achieves a high tensile strength and modulus
- \* Light weight : As a result of carbon fiber sheets having only about a quarter of the density of steel, It does not needlessly increase the total weight of the reinforced area.  
There is no corrosion and deterioration from environmental condition such as water, alkali and acid. It shows excellent water proofing effect.
- \* Ease of application : During the simple process of bonding the carbon fiber to the damaged concrete, it conforms smoothly to complex structural shapes without special tools or machinery.
- \* Economical : It provides excellent economy due to its high workability and low maintenance.



### Effects of reinforcement

- \* Improvement of Bending proof stress  
Carbon reinforcement method is an effective way to improve its bending proof stress. You can get much higher proof stress by attaching it to structure's tensile side.
- \* Improvement of durability of abrasion  
Reinforced surface attached carbon fiber is against abrasion.
- \* Reinforcement of cracks  
By reinforcing carbon fiber on the concrete's surface that are cracked due to overloads, impacts, you can restore it is strength and keep it from cracks.
- \* Reinforcement of round shape structure  
you can superior effects on the round shape structures such as tunnels, silos, smoke stacks unlike existing ways of rigid reinforcement.

### Properties

UD Areal weight : 300gr/m<sup>2</sup>

Characteristics	Unit	Specification	Test Method
Tensile Strength	GPa(kgf/cm <sup>2</sup> )	3.55	ASTM D3039
Tensile Modulus	GPa(kgf/cm <sup>2</sup> )	235	ASTM D3039
Elongation	%	1.2±0.5	ASTM D3039
Thickness	mm	0.167±0.085	
Weave		Uni-Direction	KS L 2522
Warp		12K	
Weft		G150 1/0	
Fabric Width	mm	500 +5/-0	

### Photos

