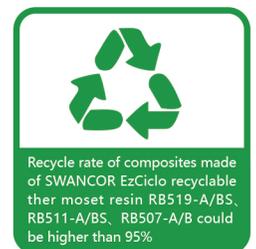
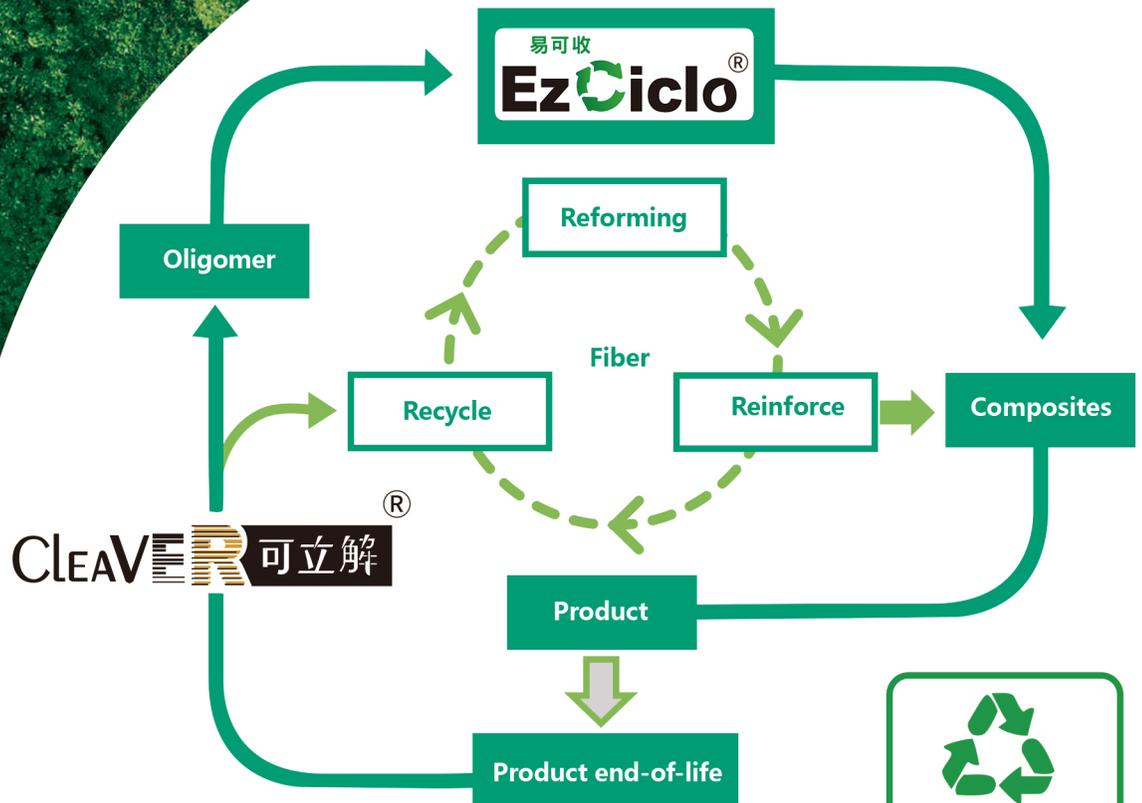


# Recyclable Thermoset Composites

EzCiclo is an innovative recyclable thermosetting epoxy resin. There is no need to change the production process and equipment by using EzCiclo to make recyclable carbon fiber composites. The composites parts can be degraded via “CleaVER” technology without generating waste solvents and pollution. The recovered oligomer resin and recycled fiber can be reused again. This new technology has significantly reduced the carbon footprint of composites life cycle. EzCiclo & CleaVER have won the 2023 JEC Composites Innovation Awards.



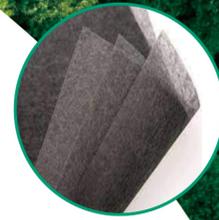
## MECHANIC PROPERTIES

### RECYCLE CARBON FIBER/SURFACE MAT

Product		FAW 30g/m <sup>2</sup>	FAW 50g/m <sup>2</sup>
Project	Unit	Data	
Breadth	mm	1000	1000
Fiber Weight Per Unit Area	g/m <sup>2</sup>	28~32	47~53
Longitudinal (MD) Tension	kg/15mm	0.31	0.69
Lateral (CD) Pull	kg/15mm	0.12	0.19
Thickness	mm	0.182	0.291

### RECYCLABLE CARBON FIBER PREPREG

Products		EzCiclo RB553	EzCiclo RB564	EzCiclo RB556	Test Standard
Fiber		T700	T700	T700	
Resin Content	wt%	37	37	37	
0°Tensile Strenght	MPa	2472	2468	2347	ISO 527-5
0°Tensile Modulus	GPa	122	109	125	
0°Compressive Strength	MPa	1192	898	1249	ISO 14126
0°Compressive Modulus	GPa	117	105	126	
90°Tensile Strength	MPa	69	65	66	ISO 527-5
90°Tensile Modulus	GPa	8	7	9	
90°Compressive Strength	MPa	160	174	148	ISO 14126
90°Compressive Modulus	GPa	9	8	9.6	
ILSS	MPa	81	89	82	ISO 14130



rCF Battery Case



rCF Backpack



rCF Wheelchair Pedal



rCF Bicycle Crankarm



rCF Bicycle Bottle Cage



rCF Safety Shoe Toe Cap