

SUSTAINABLE COMPOSITE SOLUTIONS DELIVERED

AIT Composites GPole™ is a glass fiber reinforced utility pole that will not degrade for over 100 years.

- Great for utility and catenary poles.
- Bottom 20% filled with foam for increased buckling resistance.
- GPole™ exceeds competitors standards by utilizing an improved resin system that provides higher durability, UV protection, and better alkali resistance characteristics.

Benefits



100+ Year Service Life

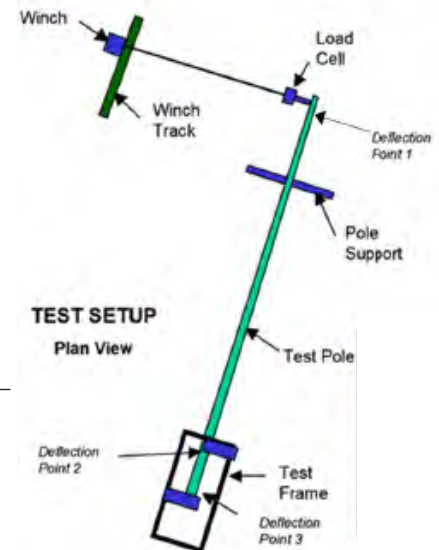
- GPole™ is 1/4 of the weight of steel and 1/2 the weight of wood.
- ANSI O5.1 Class 3 (Wood Pole Equivalent)

Significant Weight Savings & Strength

- AIT Composites FRP GPole™ is corrosion resistant which aids in designing a system that last much longer than steel or wood.

Data / Applications

Pole ID #	Maximum Load (lbs)	Max Deflection (in)	Ground Line Moment (ft-lbs)
1	2558	157	93367
2	1973	119	72015
3	2643	165	96470
4	2177	141	79461
5	2083	134	76030
6	2661	165	97127
7	2363	156	86250
Average	2351.14	148.14	85816.71
STDEV	279.68	17.36	10208.49
COV	11.90%	11.72%	11.90%



Test	ASTM	Results
Electrical	F711-17	0.2mA/0.25mA
Horizontal Burnrate	D635-18	Category HB
Dielectric Strength	D149-09	42,500 V



GPole™ is designed to be used as:

- Utility Poles
- Catenary Poles

Product Data Sheet | GPole™ | January 2022

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