

Pultrusion molded parts

Pultrusion features light weight and high strength

Features

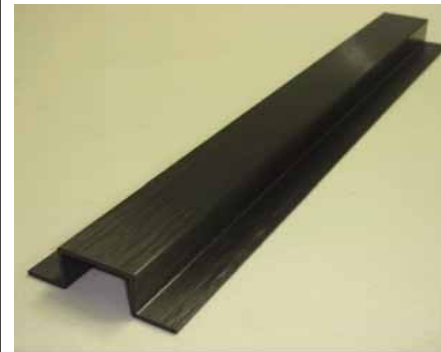
- 1) High specific strength, Light weight, high strength, modulus
- 2) Freedom of the cross-sectional design
- 3) Excellent dimensional accuracy
 CFRP's longitudinal coefficient of thermal expansion is almost zero
- 4) Superior fatigue, creep resistance properties - Carbon fiber do not creep
- 5) Excellent weather resistance, chemical resistance - Carbon fiber is structurally stable and do not cause rust and corrosion

Application

Structure material for the construction of electronics parts production equipment.

Application example:

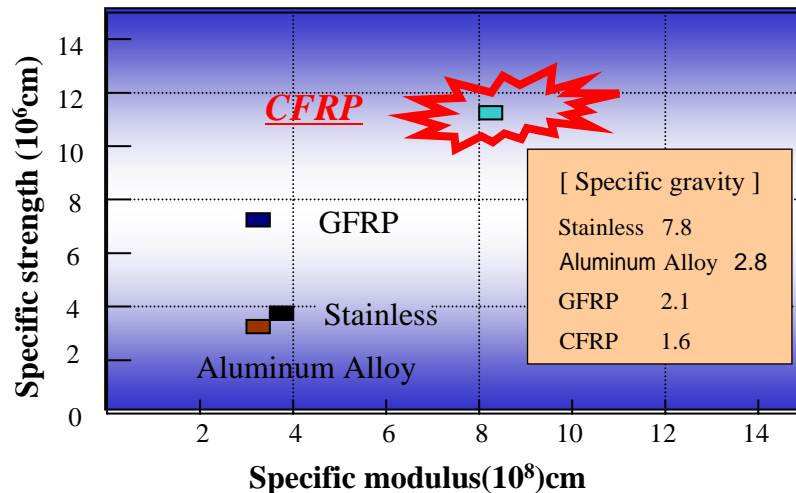
Stocker



Hollow pipe



Toward lightweight from Metal (Iron, Aluminum) to Carbon(CFRP)



Properties of parts : (Diameter 10 mm)

Base material	Carbon fiber	Glass fiber	SUS304
Matrix Resin	<i>Epoxy</i>	Polyester	
Product weight (g/m)	<i>128</i>	165	620
Specific gravity	<i>1.6</i>	2.1	7.9
Flexural strength (MPa)	<i>900</i>	720	-
Modulus (GPa)	<i>70</i>	40	-
Deformation by own weight (mm) : L=1000	<i>0.07</i>	0.21	0.30

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