Our key technology of CFRTP

1. CF spreading treatment

- CF fiber
- Carbon Particle

Spreading

Carbon particle injected to CF surface would form a gap and enable an easy impregnation of thermoplastic resins

Features
- Adaptable to both CF roving and CF fabric (12K over)
- Enable higher stiffness by less layer stacking

< Features >
1. Handling various types plastics (high viscosity resin, flame retardant material, etc.)
2. Providing economical prepreg by fast impregnation

2. Thermoplastic impregnation process to CF

< Progress of impregnation >

- PP, PC, PMMA, PVC

- Expanding to the higher viscosity resins

< Features >
1. Light weight and high stiffness
2. Forming arbitrary shape

3. Continuous multi-layer molding

< Features >
1. Light weight and high stiffness
2. Enable higher stiffness by less layer stacking

Skin-Rib sheet E (Lightweight reinforcement material)

< Cross-section Composition >

- "Skin-Rib sheet" E (elongated type)
- UDCF or GF
- PP prepreg
- Thermoplastics
- PP resin
- GF fabric (bonding layer)

Features
1. Light weight and high stiffness
2. Easy installation (Hand layup, Va-RTM)
3. Long range reinforcement
4. Vibration damping (Solid vibration)

Feature 1
Light weight and high stiffness

< Comparison of weight >

50% of Weight reduction

About 50% weight reduction Relative to Sandwich panel

Feature 2
Easy installation

< Hand layup process >

Enable to provide 16ft long sheet (can follow moderate curve)

Feature 3
Long range reinforcement

< Va-RTM process >

Handling period and resin consumed can be reduced

Feature 4
Vibration damping

Loss Coefficient

70% UP Loss Coefficient

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