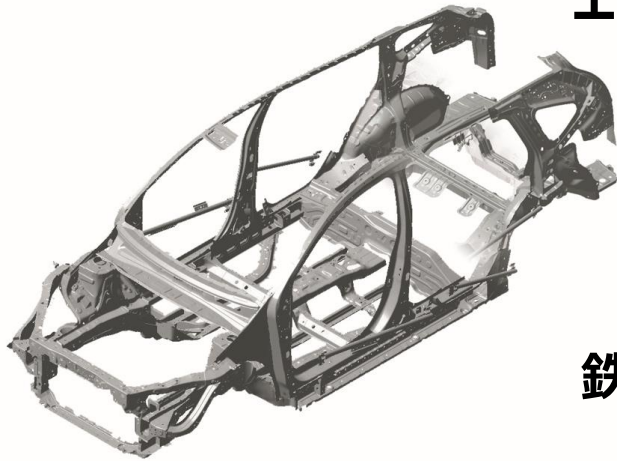


エイチワンの思い描く未来 “新たな価値”



STAGE I

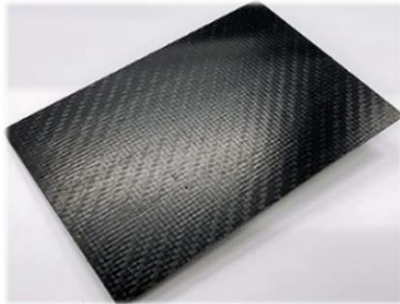
衝撃吸収に優れた
樹脂部品の検討

STAGE II

樹脂適用による
部品の一体化

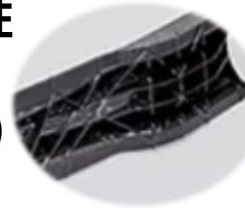
鉄+樹脂のマルチマテリアル骨格の実現

GF RTP (Continuous Glass Fiber Reinforced Thermo Plastics)
熱可塑性樹脂と連続ガラス繊維の複合材料



特長

- ・軽量
- ・高強度、高い耐衝撃性
- ・プレス成形可能
(リブ成形も可能)



リブ成形サンプル

《性能評価》

実機写真

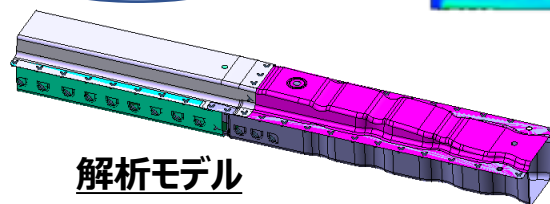
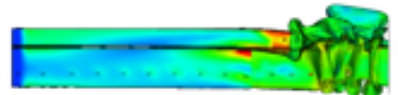


実機写真



鉄

CAE

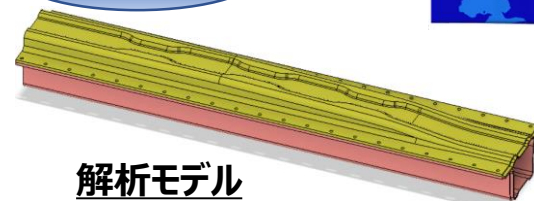
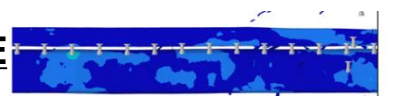


解析モデル

重量4.4kg

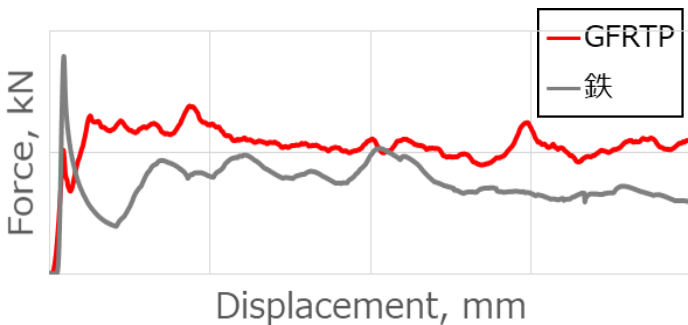
GF RTP

CAE



解析モデル

重量3.0kg



GF RTP適用効果：同エネルギー吸収量で軽量化可能(▲31.8%)

H-one create "valuable parts" toward the future.

▶ Developing Multi-material car body frame with steel and plastic



STAGE I

Design plastic parts with high shock absorbability

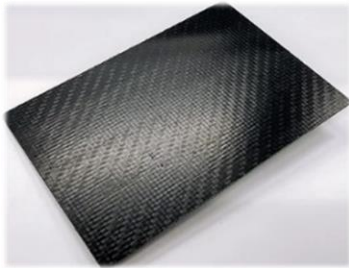
STAGE II

Integrate parts by adopting GF RTP

Material

GF RTP

"Continuous Glass Fiber Reinforced ThermoPlastics"



Major characteristics

- Lightweight
- High strength and shock absorption
- Can be formed by stamping and be molded to rib structure



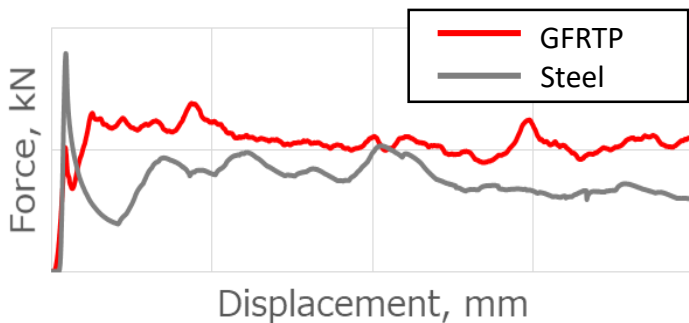
《Evaluation of parts' performance》

Crushing test

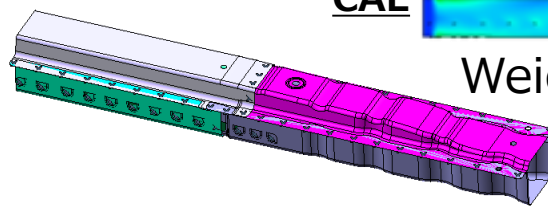
Steel



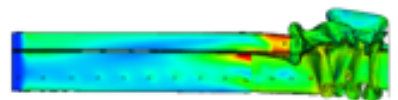
GF RTP



Steel

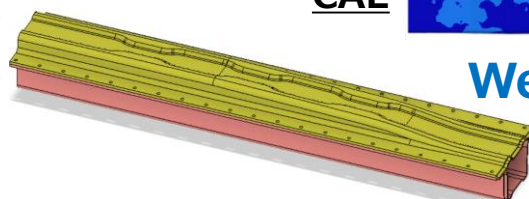


CAE



Weight: 4.4kg

GF RTP



CAE



Weight: 3.0kg

GF RTP part can be ▲31.8% lighter than steel part.

Contact

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