

# SMC for Battery covers and housings



## Why SMC?

Hybrid solutions for higher flame retardancy and/or lightweight solution

Polynt has supplied existing projects successfully for over 8 years – VW E-Up

Low shrinkage on big panels

Fire retardant system – adjustable (established in trains, ships and planes)

No spontaneous failure compared to metal or other solutions > 15 minutes @ 1.000°C achievable

Wide range of Glass and Carbon Fiber reinforcements

Design freedom and function integration

Established one step production process with low cycle times

## SINGLE PRODUCTS SYSTEMS

### HUP 13/27 RN-1090/42110

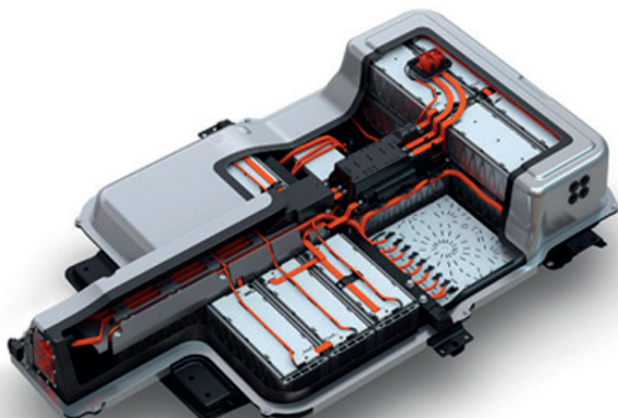
- Material is approved from BMW;
- Flamability UL 94 / V0-2,0 mm;
- Density: 1,88 g/cm<sup>3</sup>;
- 10 min@1.000°C @ 3mm.

### HUP 13/27 RN-1090/42109

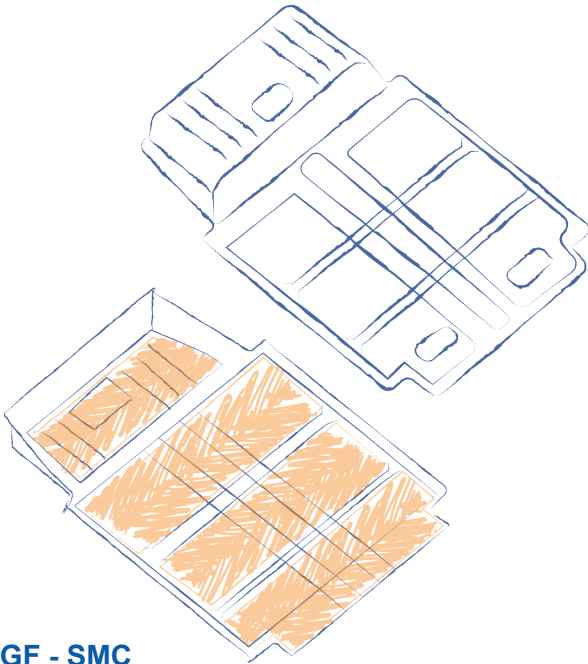
- Flamability UL 94 / V0-2,5 mm;
- Density: 1,80 g/cm<sup>3</sup>;
- 9 min@1.000°C @ 3mm.

### HUP 47/25 RN-1090

- for flatter designs;
- > 15 min@1.000°C @ 3mm.



## HYBRID SYSTEMS



 GF - SMC

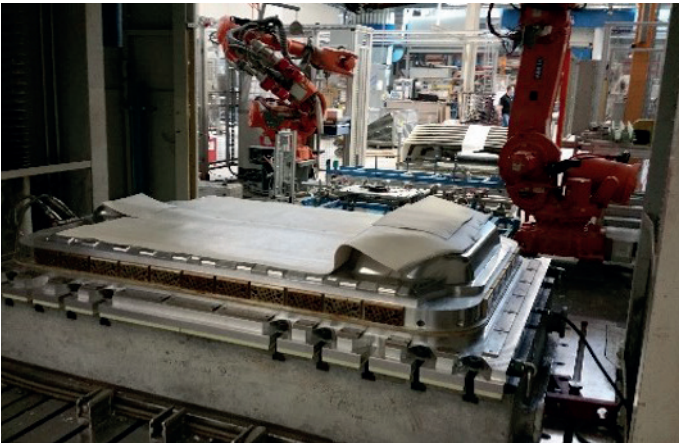
 GF - UD reinforcement

**HUP 13/27 RN-1090/42110 & SMC 27/30 GN (Barrier)**  
- Sandwich in a one shot process;  
- >13 min@1.000°C @ 3mm.

**HUP 13/27 RN-1090/42109 & SMC 13/60 GN-1090 (UD)**  
- Lightweight option / local reinforcement for higher stiffness;  
- Density: 1,80 g/cm<sup>3</sup>.

**HUP 47/25 RN-1090 & SMC 27/30 GN (Barrier)**  
- Sandwich in a one shot process;  
- For flatter parts;  
- >15 min@1.000°C @ 3mm.

## PROCESS - Two steps for Battery cover/housing



1) Compression molding of parts up to 4 sqm.

2) Assembling of a preformed aluminium film as EMV shielding (twin form).

Contact us for further needs, our Technical Assistance will support you in choosing the best product solution.

