

SIMONA® PC-GF30-FR

Thermoforming guidelines

SIMONA® PC-GF30-FR are halogen-free, flame-retardant polycarbonate sheets, reinforced with 30 % glass fibers.

About SIMONA® PC-GF30-FR

SIMONA® PC-GF30-FR sheets are particularly designed for use in e-battery housings in the automotive sector. The combination of a polycarbonate and a high content of short glass fibers provides highest mechanical properties as well as low shrinkage, making the sheets excellent for thermoforming applications. Moreover, SIMONA® PC-GF30-FR sheets meet the fire protection requirements of UL94 V0.

Areas of use:

SIMONA® PC-GF30-FR can be deployed in the following areas, for example:

- E-battery housings
- E-battery elements
- Charging infrastructure

Pre-drying and heating guidelines

For high-quality thermoforming results and uniform surface appearance, please follow these guidelines:

Pre-drying:

- Drying temperature: 75 °C
- Drying time: 60 min/ 1 mm wall thickness

Heating:

- Heating temperature range: 210 °C (3 mm)/ 215 °C (4 mm)
- Recommended mould temperature: 90 °C

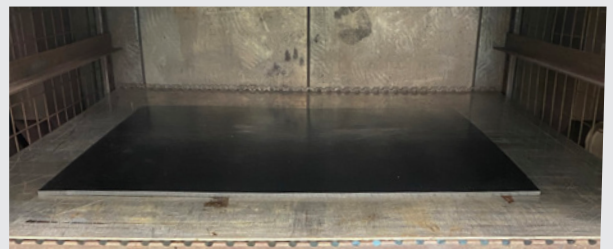
Our staff at the Technical Service Centre will be pleased to advise you on the processing and use of SIMONA® PC-GF30-FR:

Technical Service Centre

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Thermoforming process

1. Pre-drying the SIMONA® PC-GF30-FR sheet



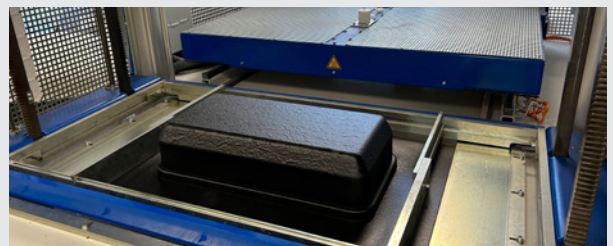
2. Heating to around 210 °C (here: infrared heating; other heating methods possible)



3. Pre-blowing



4. Forming process (here: vacuum forming; other forming methods possible)



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