

Injection moulding vs. Compression moulding

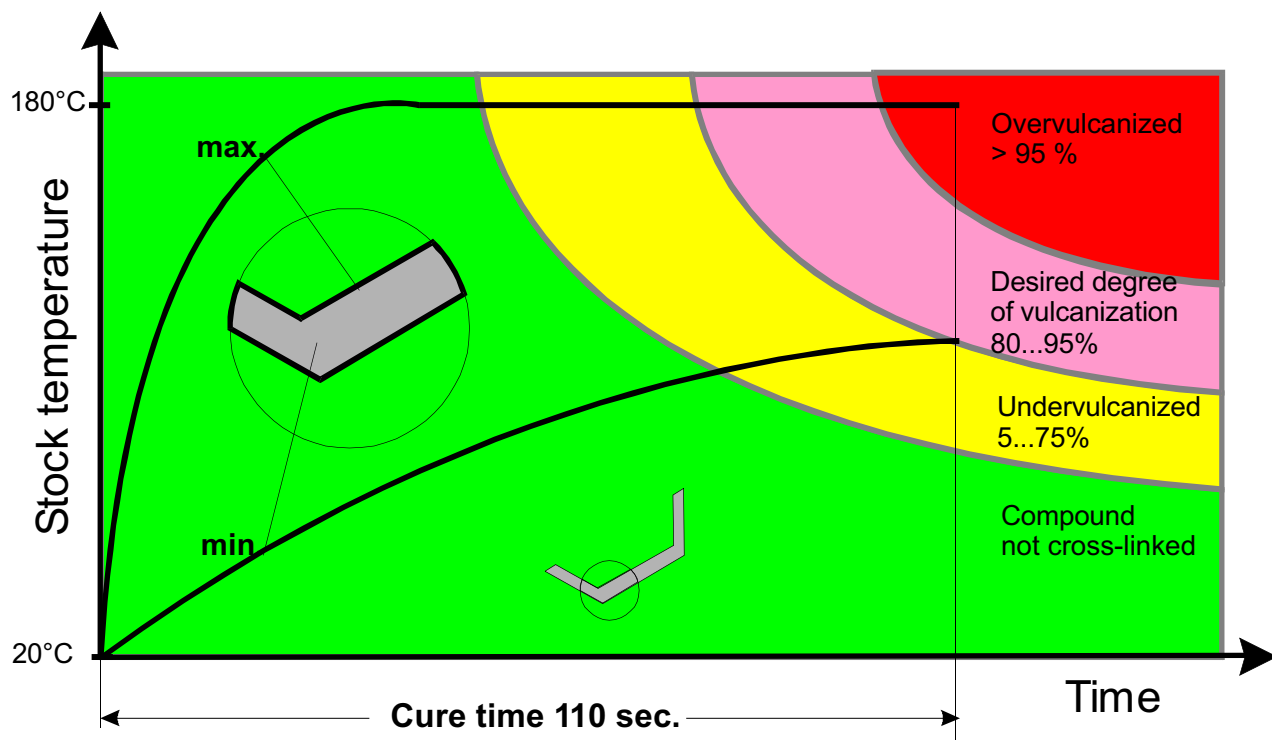
Advantages Compression moulding:

- small investments for presses and moulds
- low cost production for samples and pilot production

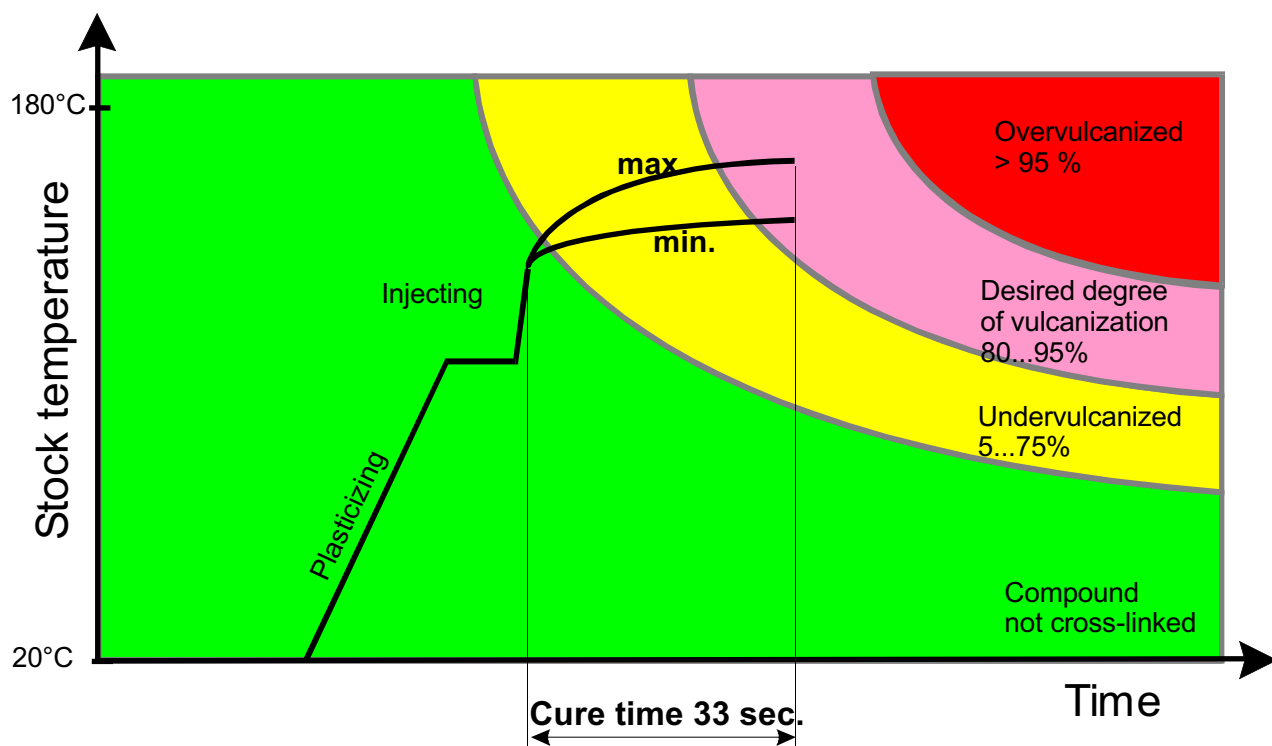
Advantages Injection moulding:

- shortest cure times possible (next page)
- no preforms necessary
- precise volumes are injected into the mould
- flowability much better by friction heat of screw
- high homogeneity of cross linking throughout the cross section.
- minimal waste and rework
- automatisisation of production possible
- Rejections due to manual errors minimised

Cure times Compression moulding



Cure times Injection moulding



In Case of Compression skin is more cured than the core and the part failure can start from the core while in use. In Injection uniform cure state is achieved throughout the cross section resulting in better quality. Also the cure times are faster as compound is preheated before filling the cavities.