

# Pressure distribution and surface quality during forming of thermoplastic composites with a collection of rubber particles as mould half

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ICCM17, Edinburgh UK, July 27-31, 2009

## Abstract

Pressing thermoplastic composites with a collection of rubber particles as one mould half offers considerable advantages over conventional pressing with a solid rubber mould half. The present paper shows the influence of both rubber hardness and particles' shape and dimensions on the pressure distribution during pressure forming.

Results show that the hardness of the rubber influences the uniformity of the pressure distribution, while the shape of the particles allows for a better surface quality.

Preliminary production shows good agreement with tests results.

Link to download paper:

<http://www.iccm-central.org/Proceedings/ICCM17proceedings/Themes/Manufacturing/COMPOSITES%20FORMING/C1.11%20Antonelli.pdf>