

An experimental study on incremental forming process of polycarbonate sheets

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Abstract.

The aim of the present paper is to give a general overview on polycarbonate sheet incremental forming. Incremental forming is a promising machining process for small and batch production because of its advantages in terms of flexibility and low tool and process costs. Polycarbonates are high impact-resistance and low scratch-resistance thermoplastic polymers that have, because of their good workability, many industrial applications in fields like automotive, aircraft, electrical, construction, medical... The paper investigates the influence of some of the input process parameters on the incremental forming of cone shaped cavities on polycarbonate sheets.