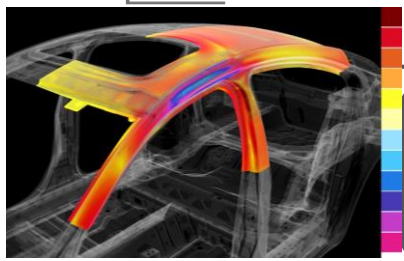




GENERAL MOTORS



Research and development of new materials and manufacturing processes for stamping tools that minimize surface defects

Motivation

This subproject consists of a continuation of what was developed during the years 2013 and 2014 in the project "Research and Development of New Materials / Alternatives for Stamping Tools that Minimize Surface Defects". This study generated as a basis a procedure for analyzing the potential of using different materials as a stamping tool.

Objective

Objective is to evaluate the results of using a exerto of polymeric material in tool and die stamping .

Approach

The evaluations proposed pass from surface defects analysis of the coined panel generated by the impact tool to springback effect lifting and measuring mechanical properties (modulus, hardness, etc.) and also wear analysis and coefficient of friction between die and sheet.