

Stiffness and strength prediction

One easy way to check the relevance and the quality of our material cards (and the associated workflow), especially for our reinforced grades (showing an anisotropy) consists in predicting typically the force-displacement curve (the stiffness being the ratio between both) and the strength (force/stress /pressure... at failure) of the part when submitted to a given "quasi-static" load. This is a bit tricky since we cannot publish the results on customer parts for an obvious confidential reason. This is also one of the reason why these last years we developed a few "demonstrators".