سیویلیکا - ناشر تخصصی مقالات کنفرانس ها و ژورنال ها
گواهی ثبت مقاله در سیویلیکا
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عنوان مقاله:

Experimental investigation on effects of span ratios on QS-PST in glass/epoxy composite laminates

محل انتشار:

پنجمین کنفرانس بین المللی کامپوزیت (سال: 1395)

تعداد صفحات اصل مقاله: 2

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خلاصه مقاله:

Today composites have found a special place in the industry. In this study, the effect of span ratio on quasistatic penetration punch shear in glass/epoxy composite laminate is experimentally studied. The composites have 12 layers of 2D woven glass fiber which are produced by hand lay-up method. Also in this study, two span ratios (specimen diameter to punch diameter) of 5 and 10 are utilized. Study of span ratios shows that with reduction of span ratio, deformation of target plate decreases and contact force increases, thus more energy is absorbed. Punch shear tests show that with a half span ratio in samples, contact force increases about 20%.

کلمات کلیدی:

Composites, Punch shear, Span ratio, Mechanical properties

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