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复合材料断口形貌与性能

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FRACTURED SURFACE MORPHOLOGY AND PROPERTIES OF COMPOSITES

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摘要

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摘要 本文用扫描电镜分析复合材料断口形貌的方法,研究了基体性能、固化过程中的加压时机对复合材料力学性能的影响。并分析了断口形貌与力学性能的内在联系。研究结果可供设计复合材料参考。

关键词:

Abstract: Tensile strength, interlaminar shear strength (ILSS) and fractured surface morphology of unidirectional composites with various matrices were examined in order to make clear the relationship between fractured surface morphology and properties of the composites. When the properties of matrices suit well with the properties of fibres, maximum tensile strength and mixed failure mode of composites can be observed. This is because the fibres play a reinforcing role fully in the composites. Bending strength, ILSS and fractured surface morphology of unidirectional composites with different duration of applied pressure during curing were also examined. With adequate duration of applied pressure, optimal bending strength and ILSS of the composites together with mixed fracture mode can be obtained. The results are meaningful for the material design of composites.

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