

<<纤维学会2009春季国际会议论文集>>

图书基本信息

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内容概要

《纤维学会2009春季国际会议论文集（英文）（套装上下册）》是与2009国际纤维学会年会配套出版的论文集，本次会议由美国纤维学会主办，东华大学协办。论文集共收录了国内外四百余篇关于纺织纤维、材料等方面的最新研究动态及成果论文，分上下两卷，共由9部分组成，分别是高分子及纳米技术，纺织加工技术，印染、后整理和生物技术，医用纺织品，功能和智能纺织品，纺织检测，产业用纺织品，时装设计、纺织史与纺织美学，零售、市场营销与管理。全部采用英文编写，并由IsTP收录。可供从事纺织、纤维材料、印染等行业的科研、教育等相关人士阅读、参考。

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插图：Three-point flexural test results As shown in figure 4, for the deflection along the wale direction and course direction, the composite PKFW is observed with biggest deflection among the three composites, which is attributed to the larger deformation subjected to the flexural load at the center of sample, compared with woven fabric. For the flexural stress along the two directions, composite WFPK is observed with the higher flexural stress than that of composite PKFW, and both of them are lower along the wale direction and higher in course direction than that of composite WFOK. There exists one difference between flexural specific energy along the wale direction and course direction. Composite WFPK shows the higher flexural specific energy than composite WFOK in wale direction and lower in course direction, however, Composite PKFW ranks between them two along both wale direction and course direction. In all the curves including the wale direction and course direction, the stair-like deformation trend can be observed when subjected to the three-point flexural tests. This exactly represents the failure process from the beginning to break. At the beginning, the sample undergoes one linear deformation. From then on the slope of the curve slows down due to the cracks occurred and grew on the matrix. One sharp drop is observed after the peak stress because of the break of woven layer with the comparatively lower strain at break. The flexural stress increases a little during the break of knitting layer reinforcement whereas some curves show this wholly and some partly.

编辑推荐

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