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## PC/PMMA/PS Nano composite with Pristine and Functionalized MWCNTs

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Taschenbuch. Book Condition: Neu. 220x150x5 mm. This item is printed on demand - Print on Demand Neuware - Novel nanocomposites PCNs and f-PCNs were prepared by the mixture of PC/PMMA/PS and MWCNTs and functionalized MWCNTs by HNO<sub>3</sub> and H<sub>2</sub>SO<sub>4</sub> (f-MWCNTs). The new prepared nanocomposites, pure polymer and polymer blend (PC/PMMA/PS) were characterized by FTIR, mechanical and electrical properties. No observable change occurred in FTIR of PC/PMMA/PS in comparison with PCNs and f-PCNs due to the addition of very minute amount of MWCNTs and f-MWCNTs i.e., 0.1 wt.% and 0.3 wt.%, respectively. The modulus of PC/PMMA/PS blend decreased where the modulus was high with 0.1 wt.% using 10 min cycle time at 270 oC for PCNs and with 5 min cycle time for f-PCNs 80 pp. Englisch.



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