Development of EPDM Added with Carbon Nanofiber

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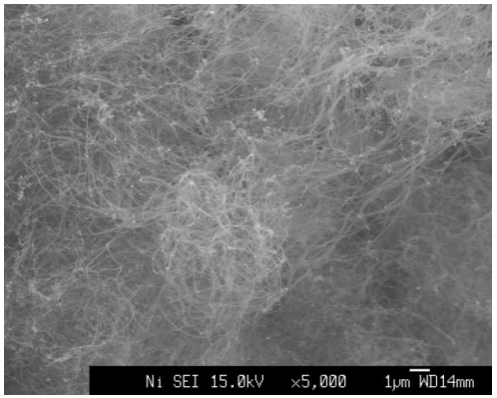
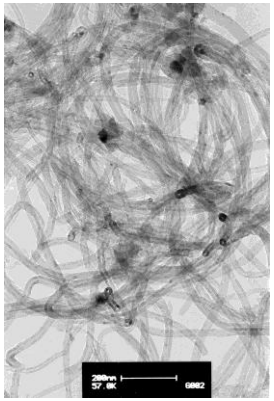
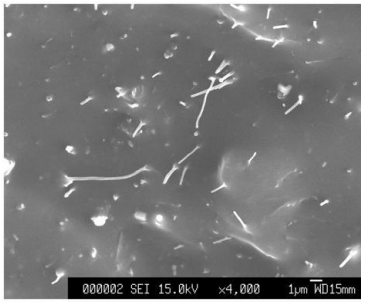


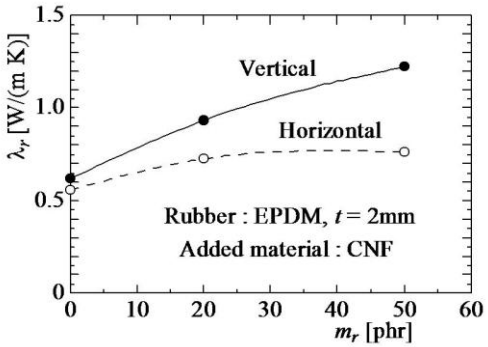
SEM image of MWCNT



TEM image of MWCNT



SEM image of EPDM added with CNF



Effect of additive amount and orientation of CNF on thermal conductivity of EPDM

Content:

To improve thermal conductivity and volume resistivity of ethylene propylene rubber (EPDM), measurements of those properties of rubber composites reinforced by CNF have been performed. Furthermore, filler (carbon black, conducting carbon black and zinc oxide), which was introduced to improve the thermal conductivity and the volume resistivity of rubber, was added to EPDM, and a comparative study of EPDM with CNF have been made. The morphology of CNF added to EPDM has been observed by using the field emission scanning electron microscopy with energy dispersive X-ray fluorescence spectrometer.

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Research Interest : Flame Synthesis, Heat Transfer

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