

The surface properties of PAN non-woven mats from co-electrospun with silicon

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Non-woven mats from electrospinning were made of PAN (Polyacrylo Nitrile) and DMF (N,N-dimethyl foramide) with several concentration rate of silicon sources, Silica sol (Ludox AS-40) and TEOS (Tetraethyl orthosilane). To compare with raw mats and silicon source involved mats, transmission electron microscopy (TEM), BET surface area analysis and X-ray photoelectron spectroscopy (XPS) were measured. Si sources give macro pore system. Therefore, mats having macro pore reveal unique properties.