

N-dimethylchloroalkylsilane의 합성 및 표면특성;
접촉각과 흐름각

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In this study, effect of hydrocarbon chain length on contact angle and sliding angle has been investigated by using n-dimethylchloroalkylsilane(DMCAS). DMCAS was synthesised by hydrosilation of dimethylchlorosilane and n-alkene. The DMCAS was characterized by Nuclear Magnetic Resonance Spectroscopy(NMR). Contact angle and sliding angle was investigated after formation of self-assembled monolayers(SAMs) on the slide glass. Below regular concentration, increment of contact angle and decrease of sliding angle was observed. According to increment of hydrocarbon chain length, contact angle was increased.