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Humidity and Temperature Effect on Alkylsilane Monolayer self-assembled on SiO₂

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Self-assembled monolayers(SAMs) of alkylsiloxane were patterned by Microcontact printing (μ CP) on SiO₂. We studied the effect of humidity and temperature of octadecyltrichlorosilane (OTS) patterned SAMs in the temperature range of 18-27°C and the humidity range of 40-70%. The features of patterned SAMs are observed by atomic force microscope(AFM).