Polymers for Liquid Crystal (LC) Alignment

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Rubbing with a velvet fabric is the only process adopted in the liquid crystal (LC) display industry to treat the polymer film surfaces for the mass-production of LC flat-panel display devices, because of the simplicity and the controllability with this method of the LC anchoring energy. Photoinduced alignment layer polymers have recently received much attention from both academic and LC flat panel display industrial field, owing to the rubbing-free process capability. In here, LC alignment on the polymer film surfaces treated by various ways will be discussed.