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(54) Title (EN): OPTICAL TRANSPARENT ADHESIVE COMPOSITION, OPTICAL TRANSPARENT ADHESIVE FILM AND FLAT PANEL DISPLAY INCLUDING SAME

(54) Title (FR): COMPOSITION ADHÉSIVE TRANSPARENTE OPTIQUE, FILM ADHÉSIF TRANSPARENT OPTIQUE ET ÉCRAN PLAT LA COMPRENANT

(54) Title (KO): 광학 투명 접착제 조성물, 그를 포함하는 광학 투명 접착 필름 및 평판표시장치

(57) Abstract:

(EN): The present invention provides an optical transparent adhesive composition characterized in that a photocurable (meth)acrylate copolymer contains 95 to 99.9% by weight of a hydroxy group-containing acrylic copolymer and 0.1 to 5% by weight of an isocyanate group-containing (meth)acrylate monomer, with respect to the total weight of the constitutional units contained in the copolymer, wherein the hydroxy group-containing acrylic copolymer and the isocyanate group-containing (meth)acrylate monomer form a urethane bond, and wherein the hydroxy group-containing acrylic copolymer contains 50 to 89% by weight of C₄-C₁₂ linear or branched alkyl acrylate monomers having a glass transition temperature of -70 to -50#, and 11 to 50% by weight of hydroxy C₄-C₆ linear or branched alkyl acrylate monomers having a glass transition temperature of -60 to -40#, with respect to the total weight of the monomers contained in the copolymer, and has a weight average molecular weight of 200,000 to 1,000,000.

(FR): La présente invention concerne une composition adhésive transparente optique caractérisée en ce qu'un copolymère de (méth)acrylate photodurcissable contient de 95 à 99,9 % en poids d'un copolymère acrylique contenant un groupe hydroxy et de 0,1 à 5 % en poids d'un monomère de (méth)acrylate contenant un groupe isocyanate, par rapport au poids total des unités constitutives contenues dans le copolymère, le copolymère acrylique contenant un groupe hydroxy et le monomère de (méth)acrylate contenant un groupe isocyanate formant une liaison uréthane, et le copolymère acrylique contenant un groupe hydroxy contenant de 50 à 89 % en poids de monomères d'acrylate d'alkyle linéaires ou ramifiés en C₄-C₁₂ présentant une température de transition vitreuse située dans la plage allant de -70 à -50 °C, et de 11 à 50 % en poids de monomères d'acrylate d'alkyle linéaire ou ramifié en C₄-C₆ d'hydroxy présentant une température de transition vitreuse située dans la plage allant de -60 à -40 °C, par rapport au poids total

des monomères contenus dans le copolymère, et présente un poids moléculaire moyen en poids situé dans la plage allant de 200 000 à 1 000 000.

(KO): 본 발명은 상기 광경화성 (메타)아크릴레이트 공중합체는 공중합체에 포함되는 구성단위 총 중량에 대하여 히드록시기 함유 아크릴계 공중합체 95~99.9 중량% 및 이소시아네이트기 함유 (메타)아크릴레이트계 단량체 0.1~5 중량%를 포함하며, 상기 히드록시기 함유 아크릴계 공중합체와 이소시아네이트기 함유 (메타)아크릴레이트계 단량체가 우레탄 결합을 형성한 것이며, 상기 히드록시기 함유 아크릴계 공중합체는 공중합체에 포함된 단량체 총 중량에 대하여 유리전이온도 $-70 \sim -50^{\circ}\text{C}$ 인 $\text{C}_4\sim\text{C}_{12}$ 의 직쇄 또는 분지쇄 알킬 아크릴레이트 단량체 50~89 중량%와 유리전이온도(T_g)가 $-60 \sim -40^{\circ}\text{C}$ 인 히드록시 $\text{C}_4\sim\text{C}_6$ 직쇄 또는 분지쇄 알킬 아크릴레이트 단량체 11~50 중량%를 포함하며, 중량평균분자량이 20만 내지 100만인 것을 특징으로 하는 광학 투명 접착제 조성물을 제공한다.

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