

A PRESSURE SENSITIVE ADHESIVE  
AND A PRESSURE SENSITIVE ADHESIVE TAPE

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Abstract

A pressure sensitive adhesive is obtained by polymerizing a mixture containing:

(1) 100 mass parts of (meth)acrylic monomer comprising 98-50 mass parts of a first monomer selected from an aliphatic (meth)alkyl acrylate having a carbon number of 4-6 and an aliphatic (meth)alkyl acrylate having a carbon number of 7-12, wherein the glass transition temperature of a homo-polymer thereof is -25 degrees C or less; and 2-50 mass parts of a second monomer comprising one or more selected from the group consisting of: an amide group-containing ethylenic unsaturated copolymerizing monomer, a carboxylic group-containing ethylenic unsaturated copolymerizing monomer, an amino group-containing ethylenic unsaturated copolymerizing monomer, a non-tertiary alkyl(meth)acrylate wherein the glass transition temperature of a homo-polymer thereof is -25 degrees C or more; and a monomer represented by the chemical structural formula (I)  $\text{CH}_2=\text{CR}^1\text{COO}(\text{R}_2\text{O})_n\text{R}^3$  or  $\text{CH}_2=\text{CR}^1\text{COOR}^4\text{R}^5$  ( $\text{R}^1$ =methyl or H;  $\text{R}^2$  and  $\text{R}^4$  = linear or branched alkyl having a carbon number of 1-6;  $\text{R}^3$  =methyl, ethyl, or substituted or non-substituted phenyl;  $\text{R}^5$ =substituted or non-substituted 4-membered or 5-membered ring containing oxygen;  $n=1-16$ ); (2) 10-100 mass parts of a block copolymer; (3) 20-100 mass parts of hydrogenated tackifier; and (4) 0.05-1.0 mass parts of a photopolymerization initiator