

ABSTRACT

"Organic-Inorganic Composite Particles and Production Process Therefor"

Organic-inorganic composite particles which include a (meth)acrylic resin framework and a polysiloxane framework having in its molecule an organosilicon containing a silicon atom directly and chemically combined with at least one carbon atom of the (meth)acrylic resin framework, and also containing 25 wt% or more of SiO_2 which constitutes the polysiloxane framework and has a mean particle diameter of $\geq 0.5 \mu\text{m}$. The particles have the mechanical resilience necessary to maintain a constant gap distance between a pair of members to be arranged with the correct gap distance between them, and the hardness and fracture strength necessary to maintain the gap constant with smaller numbers; and also do not readily cause physical damage to the members. The composite particles can be employed as spacers for a liquid crystal display as they stand or with an adhesive layer formed on the surface. The composite particles can also have a conductive layer formed on the surface, and be employed as conductive particles.

(If necessary, Figure 1 should accompany the Abstract when published.)

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