

Title (en)
LIQUID CRYSTAL MATERIALS

Title (de)
FLÜSSIGKRISTALLMATERIALIEN

Title (fr)
MATERIAUX A CRISTAUX LIQUIDES

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Application
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Abstract (en)
[origin: WO0029505A1] A liquid crystal material comprises a smectic host component and one or both of (a) a chiral dopant; and (b) either a monomer comprising two polymerisable portions either end of an intermediate portion, or a polymer formed from said monomer. The smectic host component is closely matched in length to the said chiral dopant and/or to the intermediate component. Preferably it is also closely matched in polarisability to one or other of components (a) and (b). In preferred ferroelectric compositions, both the components (a) and (b) are present, the chiral component in an amount of between 5 and 30 weight per cent relative to smectic plus chiral components. These can exhibit improved resistance to mechanical shock in surface stabilised display devices, together with good switching speeds, while not unduly depressing the SC/SA transition temperature.

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