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Structurally, therefore, the phase is
intermediate between a crystal and a
liquid leading to the use of the term

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mesophase. Where the liquid crystalline phase forms on melting the polymer, it is known as thermotropic, but where it is achieved by solvent addition it is called Inotropic.

Increasing temperature, or solvent concentration, will eventually lead to the reversion of the liquid crystal

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phase to the normal isotropic polymer melt.

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Consider a polymeric liquid being cooled towards its melting temperature. Once the temperature of the liquid reaches T_m the solid crystalline phase is thermodynamically

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favourable. In order for the liquid to undergo a phase transition to the solid state a two-step process must take place: Nucleation of solid seeds; Growth of the seeds

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Transition in Polymers... State

Liquid crystallinity in polymers may occur either by dissolving a polymer in a solvent (lyotropic liquid-crystal polymers) or by heating a polymer above its glass or melting transition point (thermotropic liquid-crystal polymers). Liquid-crystal polymers are

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present in melted/liquid or solid form. In solid form the main example of lyotropic LCPs is the commercial aramid known as Kevlar. Chemical structure of this aramid consists of linearly substituted aromatic rings linked by amide groups.

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properties in theory with the right sort of two dimensional shape it should be possible to create nematics with

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phases is a promising route for overcoming this obstacle, but nanocylinder liquid crystalline science is a nascent field that tends to be fractionated based on material type.

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liquid and solid crystal). Upon inserting such properly to the backbone of any polymer structure.

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Reviews. The 2006 edition of this authoritative guide on liquid crystalline polymer (LCP) science was produced in response to the...

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Liquid crystal polymers are capable of forming regions of highly ordered structure while in the liquid phase. However, the degree of order is somewhat less than that of a regular solid crystal. Typically, LCPs have outstanding mechanical properties at

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high temperatures, excellent chemical resistance, inherent flame retardancy and good weatherability.

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Solid is one of the four fundamental

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states of matter (the others being liquid, gas and plasma). The molecules in a solid are closely packed together and contain the least amount of kinetic energy. A solid is characterized by structural rigidity and resistance to a force applied to the surface. Unlike a liquid, a solid object does not flow to

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take on the shape of its container, nor does it ...

Solid - Wikipedia

Polymer Crystallinity. Most small molecule behavior can be understood in terms of three states: gas, liquid,

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and solid. Polymers are large molecules with strong intermolecular forces and tangled chains, and do not have a vapor phase - they decompose before the temperature gets high enough to form a vapor. The length of polymer molecules also makes it difficult for the large crystals found in

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the solid phases of most small
molecules to form.

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