Properties of polymer liquid crystals: choosing molecular structures and blending

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Class $\omega$, conic molecules

Classes $\alpha$–$\psi$ could be planar, or nearly two-dimensional. Networks are typically three-dimensional, but a planar class $\sigma$ molecule is possible, at least in principle. By contrast, molecules in Class $\omega$ must be three-dimensional. Their existence was predicted by Lin\textsuperscript{84} in 1982 but confirmed experimentally several years later\textsuperscript{85,86}. Names pyramidal or bowlic were proposed, but I eventually decided to adopt the name conic. Lin predicts\textsuperscript{87} that these materials should have interesting electric properties.

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Rigid Bowlic Liquid Crystals Based on Tungsten-Oxo CaliM41arenes: Host-Guest Effects and Head-to-Tail Organization

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