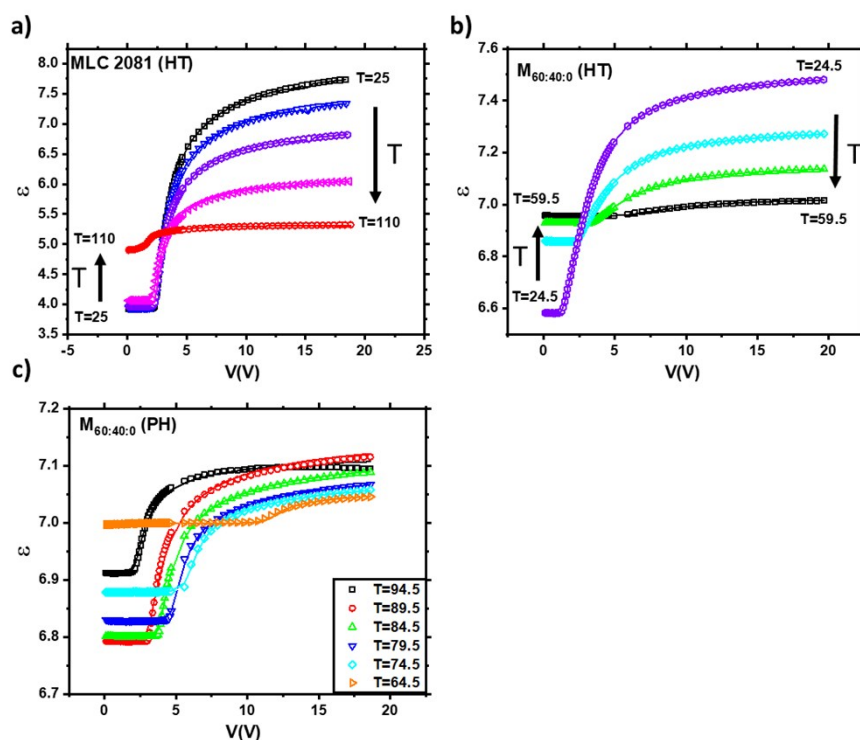


## Supplementary Information

### Variable Pitch Hydrodynamic Electro-Optic Gratings Utilising Bent Liquid Crystal Dimers

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**SI figure 1:** Plots of  $\epsilon$  vs voltage in MLC 2081 in homeotropic geometry,  $M_{60:40:0}$  in the homeotropic geometry and  $M_{60:40:0}$  in planar homogenous geometry respectively. The fittings are shown, as the connecting lines which were used to find  $k_{11}$ ,  $k_{33}$ ,  $\epsilon_{||}$  and  $\epsilon_{\perp}$ . Here the temperatures ( $T$ ) are given in  $^{\circ}\text{C}$ .

**SI Table 1.** Table of the fitting parameters attained by fittings shown in figure 4c using equation (13) with fitting errors.

Elastic constant	MLC 2081	MLC 2081	$M_{60:40:0}$
Material	$k_{11}$	$k_{33}$	$k_{11}$
$k_{ii}^0(\text{pN})$	$28.0 \pm 0.4$	$41 \pm 3$	$23.2 \pm 0.7$
$T_{\text{NI}}(\text{K})$	$375.2 \pm 0.1$	$374.2 \pm 0.07$	$359.7 \pm 0.1$