Liquid Crystalline Materials

Instec's LC materials are sourced from various liquid crystal material makers. All materials are measured using Instec ALCT instruments.

Technical Specifications

LC Material	$\varepsilon_{\parallel}$	$\varepsilon_{\perp}$	γ_1 (PaS)	K_{11} (pN)	K_{33}	n_e	n_o	T_{IN} (°C)	T_{NC} (°C)
LC-BYE7-5G	19.00	5.2	235.1	11.55	19.1	1.746	1.521	60.5	-20
LC-BY5CB-5G	18.5	7	-	5.9	9.9	1.71	1.53	35.4	23.8
LC-BYIPS-P01-5G	5.5	2.8	56.46	13.63	16.34	1.58	1.49	80	<-40
LC-BYTN-01-5G	13	3.8	129.6	10.42	15.43	1.59	1.49	90.2	<-40
LC-BYTN-01A-5G	13	3.8	129.6	10.42	15.43	1.59	1.49	90.2	<-40
LC-BYVA-01-5G	3.7	8.5	202	17.67	21.14	1.57	1.48	92	<-20

Ordering Information

Part Number	Description
LC-BYE7-5G	E7 liquid crystal, 5 gram bottle
LC-BY5CB-5G	5CB liquid crystal, 5 gram bottle
LC-BYIPS-P01-5G	Positive NLC for TFT-IPS type display, 5 gram bottle
LC-BYTN-01-5G	Positive NLC for TFT-TN type display with left hand chiral doping, 5 gram bottle
LC-BYTN-01A-5G	Positive NLC for TFT-TN type display, 5 gram bottle
LC-BYVA-01-5G	Negative NLC for TFT-VA mode display, 5 gram bottle

LC Materials are available in larger quantities. Please contact your Instec representative for details.