TABLE 5 Summary of structural results for disaturated lipids in the liquid-crystalline (L_α) state

Lipid	T (°C)	S_p	q	D_C (Å)	$\langle A \rangle$ (Å^2)	$\alpha_\parallel$ (10^{-3} K^{-1})	$\alpha_\perp$ (10^{-3} K^{-1})	$\nu_\parallel$ (10^{-2})	$\nu_\perp$ (10^{-2})	L_C^* (Å)	L_C (Å)
DLPC	10	0.229	1.35	11.4	56.7	−3.6	4.8	—	—	9.2	10.9
	30	0.193	1.45	10.5	62.6	−3.9	5.1	10.9	−2.5	8.4	9.9
	50	0.175	1.52	10.1	67.1	−2.3	3.5	9.8	−1.5	7.8	9.2
	65	0.160	1.59	9.6	71.2	−2.9	4.1	10.7	−2.3	7.4	8.7
DMPC	30	0.213	1.39	12.8	60.0	−3.1	4.3	8.9	−1.8	10.6	12.2
	50	0.184	1.48	12.0	65.4	−3.3	4.4	8.2	−1.1	9.7	11.2
	65	0.173	1.53	11.7	68.5	−2.0	3.1	8.8	−1.6	9.3	10.6
DPPC	50	0.198	1.44	14.2	63.3	−2.7	3.8	7.6	−1.4	11.8	13.3
	65	0.181	1.50	13.6	67.1	−2.8	3.9	7.1	−0.9	11.1	12.4
	80	0.163	1.57	13.0	71.9	−3.5	4.6	7.7	−1.4	10.4	11.6
DSPC	65	0.188	1.47	15.6	66.0	−2.9	4.0	6.3	−0.8	13.0	14.3
	80	0.171	1.54	14.9	70.1	−3.0	4.1	6.6	−1.1	12.2	13.5
DPPE	69	0.232	1.34	15.2	60.5	−2.7	3.9	—	—	12.7	14.3
	85	0.209	1.40	14.5	64.4	−2.9	4.0	—	—	12.1	13.5

S_p denotes the plateau order parameter values used to calculate the area factor q (Eq. 42), the hydrocarbon thickness D_C (Eq. 44), and the average area per lipid $\langle A \rangle$ (Eq. 42) using MT. The average chain lengths are calculated using Eq. 45 for L_C^* and Eq. 46 for L_C.