0.0

-0.5

A Interaction energy Ly -1.0

ANG. Molecular Meight A Molecular weight Avg. Dipole moment AND Nematic order A Dipole moment Intercept

0.45

Avg. Molecular weight

Δ Molecular weight 0.29

Avg. Dipole moment 0.47 0.18

Δ Tilt angle

Δ Interaction energy QQ

Interaction energy LI

Δ Interaction energy LJ

Δ Dipole moment **0.16 0.047 0.37** 

COF -0.18 -0.3 0.032 -0.11

Intercept 0.37 0.38 0.31 -0.08 -0.56

Δ Nematic order 0.07 0.011 -0.063 0.053 -0.13 0.063 0.27

Diff S2 0.15 -0.00650.019 0.13 -0.12 0.13 -0.44 -0.038

Δ Interdigitation -0.071 -0.1 0.0019 0.1 0.21 -0.37 0.032 -0.11 0.034 0.065 -0.038 -0.025 -0.14

Interaction energy -0.46 -0.34 -0.34 -0.025 0.5 -0.78 0.21 0.0025 -0.25 0.3 -0.036 -0.36 -0.35 0.18

Δ Interaction energy -0.36 -0.31 -0.74 -0.31 -0.039 -0.11 0.0097 0.22 -0.047 -0.047 0.13 -0.066 -0.37 -0.1 0.35

Interaction energy QQ -0.58 -0.45 -0.71 -0.012 0.26 -0.58 0.0064 0.036 -0.06 0.038-0.0057-0.26 -0.5 0.11 0.72 0.63

A Interaction energy Interaction energy Interdigitation A Interdigitation A Tilk angle ALO TILE ANGLE Oir Tile

0.93

Avg Nematic order -0.18 0.011 0.069 0.025-0.0099-0.18 1 0.27 -0.44 0.63 -0.09 -0.1 -0.23 0.032 0.21 0.00970.00640.0068 0.27 0.029

Avg Tilt angle -0.37 -0.023 0.17 -0.036 0.24 -0.17 0.63 0.091 -0.35 1 -0.14 -0.25 -0.11 0.065 0.3 -0.047 0.038 0.064 0.37 -0.19

Interdigitation 0.42 0.18 0.5 0.029 -0.13 0.46 -0.23 -0.014 0.046 -0.11 0.03 0.095 1 -0.14 -0.35 -0.37 -0.5 -0.48 -0.2 0.13

0.1 0.000610.038 0.053-0.00680.091 -0.09 0.55 0.015 -0.14 1 -0.031 0.03 -0.038-0.036 0.13 -0.0057-0.036 -0.044 0.29

0.27 -0.015 -0.29 0.37 -0.044 -0.33 -0.2 0.18

0.2 -0.073 -0.18 -0.28 0.26 0.029 0.36 0.031 -0.19 0.29 0.063 0.13 -0.22 -0.054 0.44 -0.14 -0.11 0.002

Nematic order

Diff Tilt 0.15 0.12 0.11 0.052 -0.21 0.28 -0.1 0.0027 0.49 -0.25 -0.031 1 0.095 -0.025 -0.36 -0.066 -0.26 -0.11 -0.33 0.063

0.18 0.047 -0.3 0.38 0.011 0.011-0.0065-0.0230.00061 0.12 0.18 -0.1 -0.34 -0.31 -0.45 -0.46 -0.21 0.2

**0.37** 0.032 **0.31** 0.069 -0.063 0.019 **0.17** -0.038 **0.11 0.5** 0.0019 -**0.34** -**0.74** -**0.71** -**0.78** -**0.082** -**0.073** 

-0.11 -0.08 0.025 0.053 0.13 -0.036 0.053 0.052 0.029 0.1 -0.025 -0.31 -0.012 -0.24 -0.026 -0.18

**1** -0.18 0.063 0.13 -0.17 0.091 0.28 0.46 -0.37 -0.78 -0.11 -0.58 -0.27 -0.72 0.26

1 -0.038 0.091 0.55 0.0027-0.014 -0.11 0.0025 0.22 0.036 0.028 -0.015 0.36

-0.35 0.015 **0.49** 0.046 0.034 -0.25 -0.047 -0.06 -0.071 -0.29 0.031

**0.18** -0.1 **0.11** 0.022 **0.18** -0.22

0.84 0.78

0.13 0.42 0.14

0.35 0.72 0.42 0.93 -0.054

1 0.63 0.84 0.13 0.44

0.14 -0.11

0.002

A Interaction energy op

Interaction energy Ly

Interaction energy op