0.0

-0.5

A Interaction energy Ly -1.0

Δ Interaction energy QQ -0.13 -0.2 -0.4 0.12 -0.15 -0.11 -0.086 -0.11 0.012 -0.17 -0.06 0.017 -0.15 -0.03 0.32 0.18 -0.33 Interaction energy LJ -0.41 -0.15 -0.68 -0.39 0.31 -0.25 0.014 -0.069 -0.085 -0.036 0.11 -0.098 -0.16 0.17 0.52 0.066 0.21 0.18 -0.13 Δ Interaction energy L_| -0.054 0.087 0.45 -0.21 -0.028 0.82 0.29 0.19 -0.14 0.53 -0.42 -0.12 0.14 -0.2 0.47 -0.87 -0.33 -0.13 -0.8 A Interaction energy Op ALG. Molecular Meight Interaction energy A Interaction energy Interaction energy of Interaction energy Ly A Molecular weight Avg. Dipole moment And Nematic order A Interdigitation Dipole moment Nematic order ALO TIL ANGLE A Tilk andle Interdigitation Mercept Oir Tile

1 0.48 0.39 0.17 -0.24 -0.076 -0.24 -0.021 0.22 -0.41 0.12 0.31 0.53 -0.21 0.0049 -0.16 0.17 -0.13 -0.41 -0.054

COF -0.24 -0.093 -0.21 -0.29 1 -0.023 0.03 -0.052 -0.034 0.18 0.041 -0.11 -0.042 0.22 0.047 -0.16 -0.066 -0.15 0.31 -0.028

Diff S2 0.22 0.13 -0.028 0.063 -0.034 -0.11 -0.5 -0.078 1 -0.33 0.13 0.44 0.14 -0.052 0.087 -0.095 0.13 0.012 -0.085 -0.14

Avg Tilt angle -0.41 -0.22 0.33 -0.17 0.18 0.61 0.64 0.16 -0.33 1 -0.45 -0.42 -0.2 0.046 -0.59 0.25 -0.66 -0.17 -0.036 0.53

Δ Tilt angle 0.12 0.087 -0.26 0.059 0.041 -0.55 -0.31 0.29 0.13 -0.45 1 0.13 0.083 -0.015 0.49 -0.38 0.53 -0.06 0.11 -0.42

Diff Tilt 0.31 0.32 -0.024 0.11 -0.11 -0.15 -0.2 -0.046 0.44 -0.42 0.13 1 0.19 -0.094 0.14 -0.08 0.2 0.017 -0.098 -0.12

0.17 0.099 -0.093 0.019 -0.13 0.029 0.13 -0.22 0.087 0.32 0.37 -0.19 -0.027 -0.12 0.027 -0.2 -0.15 0.087

0.3 -0.21 0.53 0.15 0.085 -0.028 0.33 -0.26 -0.024 0.27 -0.13 -0.7 -0.02 -0.54 -0.4 -0.68 0.45

-0.29 -0.011 -0.057 0.045 0.063 -0.17 0.059 0.11 -0.11 -0.02 -0.054 -0.049 0.089 0.12 -0.39 -0.21

0.27 0.12 -0.11 0.61 -0.55 -0.15 0.11 -0.14 -0.91 0.53 -0.95 -0.11 -0.25 0.82

1 0.23 -0.5 0.64 -0.31 -0.2 -0.3 0.076 -0.27 0.15 -0.32 -0.086 0.014 0.29

0.13 -0.18 0.08 -0.03 0.17 -0.2

1 -0.33 0.94 0.32 0.52 -0.8

0.68 0.066 0.47

0.29 0.21 -0.87

-0.4

Avg. Molecular weight

Δ Molecular weight 0.48

Interdigitation |

Avg. Dipole moment 0.39 0.17

Δ Dipole moment **0.17 0.099 0.3**

Intercept -0.076 0.019 0.53 -0.011 -0.023 1

Δ Nematic order -0.021 0.029 0.085 0.045 -0.052 0.12 0.23

Δ Interdigitation -0.21 -0.19 -0.13 -0.02 0.22 -0.14 0.076 -0.12 -0.052 0.046 -0.015 -0.094 -0.27

Interaction energy 0.0049-0.027 -0.7 -0.054 0.047 -0.91 -0.27 -0.14 0.087 -0.59 0.49 0.14 -0.11 0.13

Δ Interaction energy -0.16 -0.12 -0.02 -0.049 -0.16 0.53 0.15 0.044 -0.095 0.25 -0.38 -0.08 -0.036 -0.18 -0.33

Interaction energy QQ 0.17 0.027 -0.54 0.089 -0.066 -0.95 -0.32 -0.14 0.13 -0.66 0.53 0.2 -0.067 0.08 0.94 -0.4

Avg Nematic order -0.24 -0.13 0.15 -0.057 0.03 0.27