0.0

-0.5

-1.0

Surface area 0.41 2.1e-18 -0.38 0.93 0.48 0.11 0.14 -0.19 -0.043 0.52 -0.29 0.06 0.055 -0.39 -0.18 Dipole moment 0.52 0.81 -0.28 0.61 -0.036 -0.002 0.41 -1.4e-17 -0.34 0.053 0.091 0.15 -0.36 -0.82 0.097 Chain length 1.1e-17 2.1e-18 -1.4e-17 -0.37 -0.13 0.89 -0.17 0.87 -0.48 0.13 0.081 0.048 0.021 0.41 -0.33 COF 0.00078 0.031 -0.57 -0.0091 -0.33 -0.064 -0.29 -0.38 -0.34 -0.37 -0.43 0.41 -0.29 0.48 Intercept -0.57 1 0.016 -0.27 0.55 -0.061 0.028 -0.89 0.81 -0.13 -0.032 0.13 -0.49 0.3 Nematic order 0.11 0.053 0.89 -0.43 -0.032 -0.026 0.78 -0.32 0.084 0.25 0.08 -0.079 -0.45 Δ Nematic order 0.091 -0.17 -0.0091 0.13 -0.14 -0.068 -0.098 0.063 -0.13 Tilt angle 0.87 -0.33 0.016 -0.14 -0.56 0.035 0.019 -0.12 -0.14 -0.19 0.15 0.78 0.13 0.37 -0.16 Δ Tilt angle -0.047 -0.043 -0.28 -0.48 0.41 -0.27 -0.32 0.28 -0.56 -0.18 0.028 -0.17 -0.045 0.3 -0.13 Interdigitation 0.13 -0.29 0.55 0.084 0.063 -0.18 0.46 -0.099 -0.56 0.065 0.6 0.52 0.61 0.13 -0.48 Δ Interdigitation 0.081 -0.49 -0.48 -0.027 0.38 -0.36 0.41 0.064 -0.068 0.035 0.028 0.66 -0.34 Roughness 0.015 -0.036 0.41 0.00078 -0.061 0.25 -0.098 0.37 -0.17 0.46 -0.027 0.011 0.079 -0.15 Δ Roughness **0.028 0.055 -0.002 0.048** -0.045 -0.099 -0.051 0.011 -0.14 0.031 0.028 0.08 0.074 0.019 Interaction energy 0.021 -0.89 -0.079 -0.56 -0.39 -0.82 0.48 -0.13 -0.12 0.3 0.079 -0.24 0.38 -0.051 Δ Interaction energy 0.097 -0.33 -0.064 -0.45 -0.089 -0.16 -0.13 0.065 -0.34 -0.15 1 -0.19 -0.18 0.3 -0.14 -0.24 Interaction energy A Interaction energy Dipole moment Nematic Order A Roughness Surface dred Nematic order A Tilt angle Interdigitation A Interdigitation Tilk angle Royanness (Ox

Molecular weight

0.93

0.52 1.1e-17 -0.29

0.48

0.097

0.15

-0.14

-0.047

-0.24

0.6

0.015

0.028

-0.44

-0.19