0.0

-0.5

-1.0

Molecular weight 1.8e-17 -0.36 -0.038 0.087 0.2 0.048 0.55 -0.27 0.045 -0.0049 -0.19 0.94 -0.2 -0.26 Surface area 0.33 -3.4e-18 -0.43 0.94 -0.077 0.094 0.2 -0.25 0.062 0.47 -0.31 0.086 0.013 -0.13 -0.25 Dipole moment 0.052 -0.35 0.51 0.44 0.33 1.4e-17 -0.3 0.6 0.061 0.2 **-0.25 -0.076 0.059** 0.13 Chain length 1.8e-17 -3.4e-18 1.4e-17 -0.43 -0.04 0.89 -0.1 0.84 -0.5 0.029 -0.062 0.12 0.35 -0.35 COF -0.052 -0.36 -0.43 -0.3 -0.43 -0.5 -0.043 -0.29 0.26 -0.24 0.029 0.29 0.073 Intercept -0.038 -0.077 1 0.046 -0.0026 0.29 -0.48 0.17 -0.83 -0.04 -0.052 -0.15 0.32 0.15 Nematic order 0.087 0.094 0.061 0.89 -0.5 0.046 0.064 0.74 -0.36 0.068 0.017 0.055 -0.18 -0.47 Δ Nematic order 0.052 -0.1 -0.043 -0.0026 0.064 -0.12 -0.082 -0.065 -0.082 0.047 Tilt angle -0.25 0.84 -0.29 0.74 -0.12 -0.66 0.092 0.071 0.29 0.25 0.042 -0.3 -0.086 Δ Tilt angle 0.048 0.062 -0.35 -0.5 0.26 -0.48 -0.36 0.25 -0.66 -0.16 -0.05 -0.11 -0.092 0.46 -0.14 Interdigitation 0.12 0.074 0.5 -0.39 0.55 0.47 0.51 -0.24 0.17 0.068 0.092 -0.16 -0.45 -0.1 0.0085 Δ Interdigitation -0.04 -0.022 0.68 0.19 0.047 0.43 0.017 -0.082 0.071 -0.05 -0.45 -0.21 Roughness 0.086 -0.076 0.35 0.029 -0.15 0.17 -0.065 -0.11 -0.022 0.012 0.13 -0.17 Δ Roughness -0.0049 0.013 0.059 0.029 0.052 0.042 -0.092 0.012 -0.13 -0.079 0.15 0.055 0.047 0.68 Interaction energy -0.062 -0.83 -0.082 -0.77 0.29 -0.18 -0.3 0.46 -0.39 -0.22 -0.19 -0.13 0.19 0.13 -0.13 Δ Interaction energy -0.26 -0.25 -0.35 0.073 0.32 -0.47 -0.18 -0.086 -0.14 **0.0085** -0.21 -0.17 1 0.13 -0.22 Interaction energy A Interaction energy Dipole moment Nematic Order A Roughness Surface dred Nematic order A Tilt angle Interdigitation A Interdigitation Tilk angle Royanness S.