0.0

-0.5

-1.0

Molecular weight 0.98 0.83 -1.3e-17 -0.62 0.9 0.1 0.19 0.1 -0.41 0.85 -0.69 0.18 -0.12 -0.85 0.17 Surface area 0.76 -3.3e-17 -0.61 0.052 -0.36 0.82 -0.81 0.98 1 0.84 0.08 0.18 -0.68 0.18 -0.13 0.27 Dipole moment 0.83 6.2e-19 0.15 0.76 0.9 0.18 -0.41 0.75 0.078 -0.4 0.12 -0.53 0.14 -0.052 -0.88 Chain length -1.3e-17 -3.3e-17 6.2e-19 -0.37 -0.15 88.0 -0.25 0.9 -0.44 0.17 -0.075 0.53 0.0025 0.16 COF -0.54 -0.62 -0.61 -0.4 -0.48 0.59 -0.048 0.42 -0.37 -0.45 -0.05 -0.34 0.39 0.24 -0.21 Intercept 1 0.84 -0.54 0.013 0.054 -0.4 0.73 -0.58 0.087 -0.076 -0.9 0.9 -0.15 0.24 0.081 Nematic order 0.013 0.08 0.12 0.88 -0.45 -0.053 0.9 -0.35 0.16 -0.098 0.36 0.018 -0.059 0.064 Δ Nematic order -0.25 0.19 0.18 0.15 -0.05 0.24 -0.053 -0.15 0.21 0.091 -0.037 -0.14 0.13 -0.25 -0.072 Tilt angle 0.052 0.18 0.9 -0.34 0.054 0.9 -0.15 -0.51 0.22 -0.074 0.52 0.036 -0.096 0.031 Δ Tilt angle -0.41 -0.36 -0.41 -0.44 0.39 -0.4 -0.35 0.21 -0.51 1 -0.46 0.27 -0.4 0.034 0.4 -0.044 Interdigitation 0.82 0.75 0.17 -0.48 0.73 0.16 0.091 0.22 -0.46 1 -0.68 0.49 -0.13 -0.76 0.85 0.25 Δ Interdigitation -0.69 -0.53 -0.075 0.59 -0.58 -0.098 -0.037 -0.074 0.27 -0.68 -0.1 0.69 0.52 -0.68 -0.4 Roughness 0.52 1 0.18 0.14 0.53 -0.048 0.087 0.36 -0.14 -0.4 0.49 -0.1 0.11 -0.12 0.19 Δ Roughness -0.12 -0.13 -0.052 0.0025 0.24 1 0.049 -0.22 -0.076 0.018 0.13 0.036 0.034 -0.13 0.11 Interaction energy 0.12 -0.25 -0.76 1 -0.81 -0.88 0.42 -0.9 -0.059 -0.096 -0.12 -0.13 -0.85 0.52 0.049 Δ Interaction energy 0.27 0.078 -0.21 0.081 0.064 -0.072 **0.031** -0.044 1 0.16 -0.4 0.19 -0.22 -0.13 Interaction energy A Interaction energy Molecular weight Dipole moment A Interdigitation Surface dred Nematic order Nematic order Interdigitation A Roughness Chain length A Tilt angle Royanness Tilk angle CO[×]