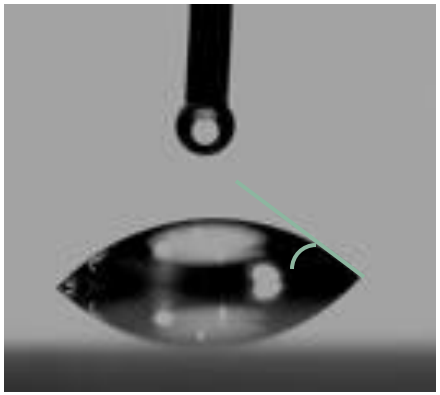
# Surface Energy of Molded Plaques



Drop of water on silicon wafer

| Polymer | Surface Energy* (dyne/cm) |
|---|---|
| PC | 47.5 +/- 1.0 |
| PET | 45.7 +/- 1.0 |
| Tritan™ MX711 | 46.3 +/- 1.0 |

$$(1 + \cos\theta_1)\gamma_1 = 4\left(\frac{\gamma_1^d \gamma_S^d}{\gamma_1^d + \gamma_S^d} + \frac{\gamma_1^p \gamma_S^p}{\gamma_1^p + \gamma_S^p}\right)$$

$$(1 + \cos\theta_2)\gamma_2 = 4\left(\frac{\gamma_2^d \gamma_S^d}{\gamma_2^d + \gamma_S^d} + \frac{\gamma_2^p \gamma_S^p}{\gamma_2^p + \gamma_S^p}\right)$$

*Eastman values are typically higher than literature – however relative ranking should hold true.



EASTMAN