

## CA-82 Polymers

### Typical Properties

| Mechanical                              | TEST METHOD   | UNITS    | CA-82  |
|---|---------------|----------|--------|
| Tensile Strength                        | ASTM D638     | psi      | 9800   |
| Elongation                              | ASTM D638     | %        | 3.4    |
| Modulus of Elasticity                   | ASTM D638     | psi      | 440000 |
| Flexural Strength                       | ASTM D790     | psi      | 17100  |
| Impact Strength – Izod (Notched)        | ASTM D256     | ft-lb/in | 0.35   |
| Impact Strength – Falling Weight (1/8") | ASTM D5420 GB | in-lb    | 2      |

| Thermal   | TEST METHOD | UNITS      | CA-82                |
|---|-------------|------------|----------------------|
| Vicat Softening Temperature                           | ASTM D1525  | °F         | 216                  |
| Heat Deflection Temperature Under Load (264 psi)      | ASTM D648   | °F         | 204                  |
| Melt Flow Rate  | ASTM D1238  | g/10 min   | 2.5                  |
| Coefficient of Linear Thermal Expansion (-30 to 30°C) | ASTM D696   | mm/(mm-oC) | 6 X 10 <sup>-5</sup> |
| Molding Shrinkage                                     | ASTM D955   | %          | 0.2-0.6              |

| Optical                | TEST METHOD | UNITS | CA-82 |
|------------------------|-------------|-------|-------|
| Luminous Transmittance | ASTM D1003  | %     | 92    |
| Haze                   | ASTM D1003  | %     | <1.0  |
| Refractive Index       | ASTM D542   | -     | 1.49  |
| Yellowness Index       | ASTM D1925  | -     | < 1.0 |

| Other                  | TEST METHOD      | UNITS | CA-82  |
|------------------------|------------------|-------|--------|
| Specific Gravity       | ASTM D792        | -     | 1.19   |
| Flammability           | UL 94            | -     | HB     |
| Relative Thermal Index | UL 746 ABC       | °C    | 90,f1  |
| 3-Year Weathering      | SAE J576 (AMECA) | -     | Listed |

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use are beyond our control. We recommend that the prospective user determine the suitability of our materials and suggestions before adopting them on a commercial scale.

Questions? Please contact Plaskolite Customer Support 800-848-9124