

## Resin

### Plexiglas® CR30 acrylic resin

| PROPERTIES                              | VALUE   | UNITS         | TEST METHOD |
|-----------------------------------------|---------|---------------|-------------|
| <b>Physical</b>                         |         |               |             |
| Spiral Flow (240°C)                     | 16      | in of flow    | 2mm channel |
| Specific Gravity                        | 1.15    |               | ASTM D792   |
| Mold Shrinkage                          | 0.3-0.8 | %             | ASTM D955   |
| Water Absorption (24 hr. immersion)     | 0.4     | % weight gain | ASTM D570   |
| <b>Mechanical</b>                       |         |               |             |
| Tensile Strength @ Maximum              | 5,100   | PSI           | ASTM D638   |
| Tensile Elongation @ Break              | 47      | %             | "           |
| Tensile Modulus                         | 265,000 | PSI           | "           |
| Flexural Strength, maximum (Yield)      | 7,400   | PSI           | ASTM D790   |
| Flexural Modulus                        | 230,000 | PSI           | ASTM D790   |
| Notched Izod Impact (73°F/23°C)         | 2.0     | ft-lb/in      | ASTM D256   |
| Rockwell Hardness                       | 65      | S             | ASTM D785   |
| <b>Thermal</b>                          |         |               |             |
| HDT (0.455 MPa; annealed) <sup>1</sup>  | 176     | °F            | ASTM D648   |
| Vicat Softening Point (50°C/hr; 10N)    | 194     | °F            | ASTM D1525  |
| <b>Optical</b>                          |         |               |             |
| Refractive Index (ND @ 73°F)            | 1.49    | -             | ASTM D542   |
| Luminous Transmittance (0.125"/3.2 mm.) | 90      | %             | ASTM D1003  |
| Haze (0.125"/3.2 mm.)                   | <3.5    | %             | ASTM D1003  |

Data given are average values and should not be used for specification purposes.

1. Annealing Cycle: 4hrs @ 76°C