



# TAITALAC 6000R

## ABS Resin

### DESCRIPTION

- High impact
- Extrusion

| Properties                  | Test      | Test Condition                                             | SI unit            |       | English unit |       |
|-----------------------------|-----------|------------------------------------------------------------|--------------------|-------|--------------|-------|
|                             |           |                                                            | Unit               | s.p.  | Unit         | s.p.  |
| Specific Gravity            | ASTMD792  |                                                            |                    | 1.04  |              |       |
| Melt Flow Index             | ASTMD1238 | 200°C, 5kg load                                            | g/10min            | 0.4   |              |       |
|                             | ASTMD1238 | 220°C, 10kg load                                           | g/10min            | 4     |              |       |
| <b>Mechanical</b>           |           |                                                            |                    |       |              |       |
| Izod Impact Strength        | ASTMD256  | 23°C, 1/4 in notched                                       | kg-cm/cm           | 35    | ft-lb/in     | 6.42  |
| Izod Impact Strength        | ASTMD256  | 23°C, 1/8 in notched                                       | kg-cm/cm           | 45    | ft-lb/in     | 8.25  |
| Tensile Strength at Yield   | ASTMD638  | 23°C, 1/8 in, 5 mm/min                                     | kg/cm <sup>2</sup> | 460   | psi          | 6500  |
| Tensile Strength at Break   | ASTMD638  | 23°C, 1/8 in, 5 mm/min                                     | kg/cm <sup>2</sup> | 370   | psi          | 5200  |
| Elongation at Break         | ASTMD638  | 23°C, 1/8 in, 5 mm/min                                     | %                  | 30    |              |       |
| Flexural Yield              | ASTMD790  | 23°C, 2.8 mm/min                                           | kg/cm <sup>2</sup> | 700   | psi          | 10100 |
| Flexural Modulus            | ASTMD790  | 23°C, 2.8 mm/min                                           | kg/cm <sup>2</sup> | 23000 | psi          | 33000 |
| <b>Thermal</b>              |           |                                                            |                    |       |              |       |
| Heat Distortion Temperature | ASTMD648  | Unannealed, 1/2 in, 18.56 kg/cm <sup>2</sup> load pressure | °C                 | 86    | °F           | 181   |
| Vicat Softening Temperature | ASTMD1525 | 1/8 in, 1 kg load                                          | °C                 | 103   | °F           | 217   |
| <b>Physical</b>             |           |                                                            |                    |       |              |       |
| Rockwell Hardness           | ASTMD785  | 23°C, R-scale                                              | R-scale            | 115   |              |       |
| Mold Shrinkage              | ASTMD955  |                                                            | %                  | ≤ 0.4 |              |       |
| Water Absorption            | ASTMD570  |                                                            | wt %               | ≤ 0.3 |              |       |
| <b>Flammability</b>         |           |                                                            |                    |       |              |       |
|                             | UL-94     | 1/16 in                                                    | File No E50263     | HB    |              |       |
| <b>Electrical</b>           |           |                                                            |                    |       |              |       |
| Relative Temperature Index  | UL-746B   | 0.062 in above                                             | °C                 | 60    | °F           | 140   |
| Hot Wire Ignition           | UL-746A   | 0.062 in above                                             | Secs               | 18    |              |       |
| High Current Arc Ignition   | UL-746A   | 0.062 in above                                             | Arcs               | 200   |              |       |
| Arc Tracking Rate           | UL-746A   | 0.062 in above                                             | in/min             | 0     |              |       |

### APPLICATION

- Office equipment
- OA product
- Low temperature use
- Shoes
- plastic core

