

## Taita Chemical Company, Limited



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Product Information  
Ver. : 6.0

## TAITALAC 5000

### ABS Resin

#### DESCRIPTION

- Injection
- Medium impact
- Good flow for process
- High gloss
- High rigidity

#### APPLICATION

- Tape recorders
- Video cassettes
- Clocks
- Office equipment
- House-ware

| 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            | 2.0   |              |        |
| Melt Flow Index             | ASTMD1238 | 220°C , 10kg load                                          | g/10min            | 20.0  |              |        |
| <b>Mechanical</b>           |           |                                                            |                    |       |              |        |
| Izod Impact Strength        | ASTMD256  | 23°C , 1/4 in notched                                      | kg-cm/cm           | 18    | ft-lb/in     | 3.3    |
| Izod Impact Strength        | ASTMD256  | 23°C , 1/8 in notched                                      | kg-cm/cm           | 20    | ft-lb/in     | 3.7    |
| Tensile Strength at Yield   | ASTMD638  | 23°C , 1/8 in, 5 mm/min                                    | kg/cm <sup>2</sup> | 430   | psi          | 6100   |
| Tensile Strength at Break   | ASTMD638  | 23°C , 1/8 in, 5 mm/min                                    | kg/cm <sup>2</sup> | 360   | psi          | 5100   |
| 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> | 750   | psi          | 10700  |
| Flexural Modulus            | ASTMD790  | 23°C , 2.8 mm/min                                          | kg/cm <sup>2</sup> | 26000 | psi          | 370000 |
| <b>Thermal</b>              |           |                                                            |                    |       |              |        |
| Heat Distortion Temperature | ASTMD648  | Unannealed, 1/2 in, 18.56 kg/cm <sup>2</sup> load pressure | °C                 | 83    | °F           | 181    |
| Vicat Softening Temperature | ASTMD1525 | 1/8 in , 1 kg load                                         | °C                 | 95    | °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     |              |        |

Note : The data listed represent average values and are believed to be reliable. They are given for information; no guarantee of their accuracy is made.