



**TAITALAC 5000W**  
**ABS Resin**

**Acrylonitrile Butadiene Styrene (ABS) Resin**

| Characteristics  | Applications   |
|--|--|
| <ul style="list-style-type: none"> <li>Injection Moldoing</li> <li>Good flow for process</li> <li>High gloss</li> <li>Whiteness</li> </ul> | <ul style="list-style-type: none"> <li>Office equipment</li> <li>House-ware</li> <li>White home appliance</li> <li>White coloring compounding</li> </ul> |

| Properties                      | Test       | Test Condition              | SI unit            |       |
|---------------------------------|------------|-----------------------------|--------------------|-------|
|                                 |            |                             | Unit               | s.p.  |
| <b>Rheological Properties</b>   |            |                             |                    |       |
| Specific Gravity                | ASTM D792  | 23°C                        | g/cm <sup>3</sup>  | 1.04  |
| Melt Volume Rate                | ASTM D1238 | 200°C, 5kg load             | g/10min            | 1.8   |
| Melt Volume Rate                | ASTM D1238 | 220°C, 10kg load            | g/10min            | 20    |
| <b>Mechanical Properties</b>    |            |                             |                    |       |
| Izod Impact Strength            | ASTMD256   | 23°C, 1/4" Notched          | kg-cm/cm           | 19    |
| Izod Impact Strength            | ASTMD256   | 23°C, 1/8" Notched          | kg-cm/cm           | 21    |
| Tensile Strength at Yield       | ASTMD638   | 23°C, 5 mm/min              | kg/cm <sup>2</sup> | 450   |
| Tensile Strength at Break       | ASTMD638   | 23°C, 5 mm/min              | kg/cm <sup>2</sup> | 380   |
| Elongation at Break             | ASTMD638   | 23°C, 5 mm/min              | %                  | 30    |
| Flexural Yield                  | ASTMD790   | 23°C, 2.8 mm/min            | kg/cm <sup>2</sup> | 790   |
| Flexural Modulus                | ASTMD790   | 23°C, 2.8 mm/min            | kg/cm <sup>2</sup> | 27000 |
| <b>Thermal Properties</b>       |            |                             |                    |       |
| Heat Distortion Temperature     | ASTMD648   | unannealing 1.8MPa          | °C                 | 85    |
| Vicat Softening Temperature     | ASTMD1525  | 50°C/hr , 1 kg load         | °C                 | 103   |
| <b>Physical Properties</b>      |            |                             |                    |       |
| Rockwell Hardness               | ASTMD785   | 23°C, R-scale               | R-scale            | 115   |
| Mold Shrinkage                  | ASTMD955   | 60×60×2mm S <sub>Flow</sub> | %                  | ≤ 0.4 |
| Moisture Absorption Equilibrium | ASTMD570   | 23°C/50% RH                 | wt %               | ≤ 0.3 |
| <b>Flammability</b>             |            |                             |                    |       |
|                                 | UL-94      | 1/16 inch                   | No E50263          | HB    |
| <b>Electrical</b>               |            |                             |                    |       |
| Relative Temperature Index      | UL-746B    | 0.062 inch above            | °C                 | 85    |
| Hot Wire Ignition               | UL-746A    | 0.062 inch above            | Secs               | 18    |
| High Current Arc Ignition       | UL-746A    | 0.062 inch above            | Arcs               | 200   |
| Arc Tracking Rate               | UL-746A    | 0.062 inch 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.