# Taitalac® 6003

Acrylonitrile Butadiene Styrene

Taita Chemical Company, Ltd.

## Message:

Taitalac®6003 is an acrylonitrile butadiene styrene (ABS) material. This product is available in North America or Asia Pacific region. The processing method is injection molding.
Taitalac®The main features of the 6003 are:
flame retardant/rated flame
low gloss
high liquidity
Impact resistance
Taitalac®The typical application field of 6003 is: consumer goods

| General Information | | | |
|---|---|---|---|
| UL YellowCard | E50263-241895 | | |
| Features | Gloss, low<br>High liquidity<br>Medium impact resistance | | |
| Uses | Toys | | |
| UL File Number | E50263 | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Specific Gravity | 1.05 | g/cm³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) | | | ASTM D1238 |
| 200°C/5.0 kg | 1.0 | g/10 min | ASTM D1238 |
| 220°C/10.0 kg | 10 | g/10 min | ASTM D1238 |
| Molding Shrinkage - Flow | < 0.40 | % | ASTM D955 |
| Water Absorption (24 hr) | 0.30 | % | ASTM D570 |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Rockwell Hardness (R-Scale) | 105 | | ASTM D785 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Strength [1] | | | ASTM D638 |
| Yield, 23°C, 3.18mm | 37.9 | MPa | ASTM D638 |
| Fracture, 23°C, 3.18mm | 31.7 | MPa | ASTM D638 |
| Tensile Elongation [2] (Break, 23°C, 3.18 mm) | 30 | % | ASTM D638 |
| Flexural Modulus [3] (23°C) | 2210 | MPa | ASTM D790 |
| Flexural Strength [4] (Yield, 23°C) | 58.6 | MPa | ASTM D790 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Notched Izod Impact | | | ASTM D256 |
| 23°C, 3.18 mm | 200 | J/m | ASTM D256 |

| | | | |
|---|---|---|---|
| 23°C, 12.7 mm | 170 | J/m | ASTM D256 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Deflection Temperature Under Load (1.8 MPa, Unannealed, 12.7 mm) | 81.1 | °C | ASTM D648 |
| Vicat Softening Temperature | 96.1 | °C | ASTM D1525 [5] |
| RTI Elec (1.57 mm) | 60.0 | °C | UL 746 |
| RTI Imp (1.57 mm) | 60.0 | °C | UL 746 |
| RTI (1.57 mm) | 60.0 | °C | UL 746 |
| **Electrical** | **Nominal Value** | **Unit** | **Test Method** |
| High Amp Arc Ignition (HAI) (1.57 mm) | 10.0 | | UL 746 |
| High Voltage Arc Tracking Rate (HVTR) (1.57 mm) | 0.00 | mm/min | UL 746 |
| Hot-wire Ignition (HWI) (1.57 mm) | 12 | sec | UL 746 |
| **Flammability** | **Nominal Value** | **Unit** | **Test Method** |
| Flame Rating (1.59 mm) | HB | | UL 94 |
| **Additional Information** | | | |
| Water Absorption, ASTM D570: <0.3% | | | |
| **NOTE** | | | |
| 1. | 5.0 mm/min | | |
| 2. | 5.0 mm/min | | |
| 3. | 2.8 mm/min | | |
| 4. | 2.8 mm/min | | |
| 5. | 压 力1 (10N) | | |



## Recommended distributors for this material

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