

## Technical Data Sheet ( ASTM )

### ABS(Acrylonitrile Butadiene Styrene)

### ABS 770ZH

**Features** Low gloss, General extrusion molding use  
**Applications** Extruded products demanding for low gloss

| Physical  | Test Method | Value   |
|---|-------------|---|
| Density   | ASTM D792   | 1.08 g/cm <sup>3</sup>                        |
| Melt Flow Index (220°C, 10kg)                         | ASTM D1238  | 4 g/10min                                     |
| Melt Flow Index (200°C, 21.6kg)                       | ASTM D1238  | 6 g/10min                                     |
| Mold Shrinkage  | ASTM D955   | 0.5 ~ 0.8 %                                   |
| Water absorption                                      | ASTM D570   | - %   |
| Mechanical  | Test Method | Value   |
| Tensile Strength                                      | ASTM D638   | 450 kgf/cm <sup>2</sup><br>(6,300) (psi)      |
| Elongation  | ASTM D638   | 25 %  |
| Flexural Strength                                     | ASTM D790   | 550 kgf/cm <sup>2</sup><br>(7,700) (psi)      |
| Flexural Modulus                                      | ASTM D790   | 17,000 kgf/cm <sup>2</sup><br>(241,400) (psi) |
| Izod Impact Strength(3.2mm, 23°C)                     | ASTM D256   | 24 kgf-cm/cm<br>(4.4) (ft-lb/in)              |
| Izod Impact Strength(6.4mm, 23°C)                     | ASTM D256   | 18 kgf-cm/cm<br>(3.3) (ft-lb/in)              |
| Rockwell Hardness(R scale)                            | ASTM D785   | 109   |
| Thermal   | Test Method | Value   |
| Heat Deflection Temperature(18.6kgf/cm <sup>2</sup> ) | ASTM D648   | 90 °C<br>(194) (°F)                           |
| Vicat Softening Temperature(5kg, 50°C/h)              | ASTM D1525  | 100 °C<br>(212) (°F)                          |
| Flammability  | Test Method | Value   |
| Flame Rating - UL (1.6mm)                             | UL 94       | HB  |

#### Notes

These are just typical properties, not specifications. Users should confirm results by their own test.