

## Technical Data Sheet ( ASTM )

### ABS(Acrylonitrile Butadiene Styrene)

### ABS 780F

#### Features

Super flow

#### Applications

Large size injection molding product, TV housings

| Physical                                              | Test Method | Value                                         |
|-------------------------------------------------------|-------------|-----------------------------------------------|
| Density                                               | ASTM D792   | 1.04 g/cm <sup>3</sup>                        |
| Melt Flow Index (220°C, 10kg)                         | ASTM D1238  | 65 g/10min                                    |
| Melt Flow Index (200°C, 21.6kg)                       | ASTM D1238  | 95 g/10min                                    |
| Mold Shrinkage                                        | ASTM D955   | 0.5 ~ 0.8 %                                   |
| Water absorption                                      | ASTM D570   | - %                                           |
| Mechanical                                            | Test Method | Value                                         |
| Tensile Strength                                      | ASTM D638   | 440 kgf/cm <sup>2</sup><br>(6,160) (psi)      |
| Elongation                                            | ASTM D638   | 20 %                                          |
| Flexural Strength                                     | ASTM D790   | 580 kgf/cm <sup>2</sup><br>(8,120) (psi)      |
| Flexural Modulus                                      | ASTM D790   | 20,000 kgf/cm <sup>2</sup><br>(284,000) (psi) |
| Izod Impact Strength(3.2mm, 23°C)                     | ASTM D256   | 19 kgf-cm/cm<br>(3.5) (ft-lb/in)              |
| Izod Impact Strength(6.4mm, 23°C)                     | ASTM D256   | 15 kgf-cm/cm<br>(2.8) (ft-lb/in)              |
| Rockwell Hardness(R scale)                            | ASTM D785   | 105                                           |
| Thermal                                               | Test Method | Value                                         |
| Heat Deflection Temperature(18.6kgf/cm <sup>2</sup> ) | ASTM D648   | 82 °C<br>(180) (°F)                           |
| Vicat Softening Temperature(5kg, 50°C/h)              | ASTM D1525  | 92 °C<br>(198) (°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.