

# SP200

## Acrylonitrile Butadiene Styrene (ABS)

### Description:

SP200 is a super high impact grade of ABS resin for injection molding process. It is suitable for helmet, auto parts (bumper, motorcycle component), and electrical appliances where need super high impact strength.

| Physical Properties:   | Method     | Unit                                | Value    |
|--|------------|-------------------------------------|----------|
| Melt Flow Index (10 kg/220°C)                                | ASTM D1238 | g/10min.                            | 17       |
| Izod Notched Impact (1/4", 23°C)                             | ASTM D256  | Kg-cm/cm                            | 36       |
| Tensile Strength at Yield (23°C)                             | ASTM D638  | kg/cm <sup>2</sup>                  | 420      |
| Flexural Strength at Yield (23°C)                            | ASTM D790  | kg/cm <sup>2</sup>                  | 570      |
| Flexural Modulus (23°C)                                      | ASTM D790  | ×10 <sup>4</sup> kg/cm <sup>2</sup> | 2.05     |
| Rockwell Hardness (1/4", 23°C)                               | ASTM D785  | R-Scale                             | 109      |
| Heat Distortion Temperature (1/4", 18.6 kg/cm <sup>2</sup> ) | ASTM D648  | °C                                  | 84       |
| Heat Distortion Temperature (1/4", 4.6 kg/cm <sup>2</sup> )  | ASTM D648  | °C                                  | 90       |
| Flammability   | UL-94      | -                                   | HB (1.5) |

### Processing Technique

Drying Temperature: 80-85°C, 2-5 hrs

Processing Temperature: 190-240°C

\*\*However, the actual processing conditions depend on mold design, power of machine, screw configurations and other environments.\*\*

**Remark:** The values presented on the above are typical laboratory average, not to be construed as specifications and may vary within moderate ranges. The applicability or the accuracy of this information or the suitability of our products cannot be guaranteed because the conditions of use on the part or our uses are beyond our control.