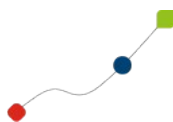


## DATASHEET COMPARISON

### ASTM Property


**ASTM Property**

ISO Property



|                                                                                   |            |          |
|-----------------------------------------------------------------------------------|------------|----------|
|  | Grade      | SD-0190H |
|                                                                                   | Resin Type | ABS      |

Home Appliances, Helmet

| Item                          | Measuring Method | Condition                       | Unit                | Value |
|-------------------------------|------------------|---------------------------------|---------------------|-------|
| <b>Physical</b>               |                  |                                 |                     |       |
| Specific Gravity              | ASTM D792        | Natural or representative color | -                   | 1.04  |
| Melt Flow Index               | ASTM D1238       | 220l, 10kg                      | g/10min             | 8.5   |
| <b>Mechanical</b>             |                  |                                 |                     |       |
| Tensile Strength at Yield     | ASTM D638        | 5mm/min                         | kgf/cm <sup>2</sup> | 350   |
| Flexural Strength             | ASTM D790        | 2.8mm/min                       | kgf/cm <sup>2</sup> | 480   |
| Flexural Modulus              | ASTM D790        | 2.8mm/min                       | kgf/cm <sup>2</sup> | 17000 |
| Izod Impact Strength(notched) | ASTM D256        | 1/4 inch at 23°C                | kgf-cm/cm           | 40    |
| Rockwell Hardness             | ASTM D785        | R-Scale                         | -                   | 93    |
| <b>Thermal</b>                |                  |                                 |                     |       |
| VICAT Softening Temperature   | ISO 306          | B/50                            | °C                  | 95    |
| VICAT Softening Temperature   | ISO 306          | B/120                           | °C                  | 97    |

1. The above figures are the representative values based on NP, which may vary from color to color, and can be used as a reference only for the purpose of selecting materials.
2. The above figures are basic guidelines for selecting materials; therefore, they are not regarded as the official specifications for materials involved, and cannot be used for the purpose of designing a mold.
3. The above values can be adjusted in accordance with processing conditions, and the specific change in value is allowed only within a limited range in which adjustment has no adverse or negative impact on the final product.

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\* The last update date : 2014/05/13

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