

## DATASHEET COMPARISON

### ASTM Property


**ASTM Property**

ISO Property



|                |            |         |  |  |
|----------------|------------|---------|--|--|
| <b>storex®</b> | Grade      | SR-0310 |  |  |
|                | Resin Type | ABS     |  |  |

| Item                          | Measuring Method | Condition                        | Unit                | Value         |
|-------------------------------|------------------|----------------------------------|---------------------|---------------|
| <b>Physical</b>               |                  |                                  |                     |               |
| Specific Gravity              | ASTM D792        | Natural or representative color  | -                   | 1.05          |
| Melt Flow Index               | ASTM D1238       | 220ℓ, 10kg                       | g/10min             | 12            |
| Mold Shrinkage(MD)            | ASTM D955        | Flow at 3.2mm(MD)                | %                   | 0.4-0.7       |
| Mold Shrinkage(MD)            | ASTM D955        | X-Flow at 3.2mm(TD)              | %                   | 0.4-0.7       |
| <b>Mechanical</b>             |                  |                                  |                     |               |
| Tensile Strength at Yield     | ASTM D638        | 50mm/min                         | kgf/cm <sup>2</sup> | 410           |
| Tensile Strain at break       | ASTM D638        | 50mm/min                         | %                   | -             |
| Tensile Modulus               | ASTM D638        | 50mm/min                         | kgf/cm <sup>2</sup> | -             |
| Tensile Strength at break     | ASTM D638        | 50mm/min                         | kgf/cm <sup>2</sup> | -             |
| Flexural Strength             | ASTM D790        | 2.8mm/min                        | kgf/cm <sup>2</sup> | 630           |
| Flexural Modulus              | ASTM D790        | 2.8mm/min                        | kgf/cm <sup>2</sup> | 21000         |
| Izod Impact Strength(notched) | ASTM D256        | 1/4 inch at 23°C                 | kgf-cm/cm           | 18            |
| Izod Impact Strength(notched) | ASTM D256        | 1/8 inch at 23°C                 | kgf-cm/cm           | 20            |
| Rockwell Hardness             | ASTM D785        | R-Scale                          | -                   | 110           |
| <b>Thermal</b>                |                  |                                  |                     |               |
| Heat Deflection Temperature   | ASTM D648        | 18.56kgf/cm <sup>2</sup> , 6.4mm | °C                  | 93            |
| VICAT Softening Temperature   | ISO 306          | B/50                             | °C                  | 104           |
| VICAT Softening Temperature   | ISO 306          | B/120                            | °C                  | 107           |
| <b>Flammability</b>           |                  |                                  |                     |               |
| Flammability                  | UL94             | HB                               | mm                  | 1.5, 3.0, 6.0 |

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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