

## **ASTM Property**

| starex* | Grade      | SD-0150 |
|---------|------------|---------|
|         | Resin Type | ABS     |

## Home Appliances

| ltem                             | Measuring Method | Condition                       | Unit      | Value |  |  |
|----------------------------------|------------------|---------------------------------|-----------|-------|--|--|
| Physical                         |                  |                                 |           |       |  |  |
| Specific Gravity                 | ASTM D792        | Natural or representative color | -         | 1.04  |  |  |
| Melt Flow Index                  | ASTM D1238       | 200℃, 5kg                       | g/10min   | 2.0   |  |  |
| Mold Shrinkage(MD)               | ASTM D955        | Flow at 3.2mm(MD)               | %         | -     |  |  |
| Mold Shrinkage(TD)               | ASTM D955        | X-Flow at 3.2mm(TD)             | %         | -     |  |  |
| Mechanical                       |                  |                                 |           |       |  |  |
| Tensile Strength at<br>Yield     | ASTM D638        | 5mm/min                         | kgf/cm²   | 420   |  |  |
| Tensile Strain at break          | ASTM D638        | 1mm/min                         | %         | 39    |  |  |
| Tensile Modulus                  | ASTM D638        | 1mm/min                         | kgf/cm²   | 22000 |  |  |
| Tensile Strength at break        | ASTM D638        | 1mm/min                         | kgf/cm²   | 420   |  |  |
| Flexural Strength                | ASTM D790        | 2.8mm/min                       | kgf/cm²   | 630   |  |  |
| Flexural Modulus                 | ASTM D790        | 2.8mm/min                       | kgf/cm²   | 21000 |  |  |
| Izod Impact<br>Strength(notched) | ASTM D256        | 1/4 inch at 23°C                | kgf·cm/cm | 22    |  |  |
| Izod Impact<br>Strength(notched) | ASTM D256        | 1/8 inch at 23°C                | kgf·cm/cm | 35    |  |  |
| Rockwell Hardness                | ASTM D785        | R-Scale                         | -         | 109   |  |  |
| Thermal                          |                  |                                 |           |       |  |  |
| Heat Deflection<br>Temperature   | ASTM D648        | 18.56kgf/ൺ, 6.4mm               | °C        | 84    |  |  |
| Heat Deflection<br>Temperature   | ASTM D648        | 4.6kgf/cm², 6.4mm               | °C        | -     |  |  |
| VICAT Softening<br>Temperature   | ISO 306          | B/50                            | °C        | 99    |  |  |

- 1. The value above is the representative value of the NP or representative color and may have deviation. It can only be used for selecting materials.
- 2. The value above shall not be regarded as a material specification and cannot be used for molding designs.

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