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|---------------------------|------------|---------|
| starex[®] | Grade | SD-0150 |
| | Resin Type | ABS |

Home Appliances, Automotive

| Item | Measuring Method | Condition | Unit | Value |
|-------------------------------|------------------|----------------------------------|---------------------|-------|
| Physical | | | | |
| Specific Gravity | ASTM D792 | Natural or representative color | - | 1.04 |
| Melt Flow Index | ASTM D1238 | 200°C, 5kg | g/10min | 2.0 |
| Mold Shrinkage(MD) | ASTM D955 | Flow at 3.2mm(MD) | % | - |
| Mold Shrinkage(MD) | ASTM D955 | X-Flow at 3.2mm(TD) | % | - |
| Mechanical | | | | |
| Tensile Strength at Yield | ASTM D638 | 5mm/min | kgf/cm ² | 420 |
| Tensile Strain at break | ASTM D638 | 1mm/min | % | 39 |
| Tensile Modulus | ASTM D638 | 1mm/min | kgf/cm ² | 22000 |
| Tensile Strength at break | ASTM D638 | 1mm/min | kgf/cm ² | 420 |
| Flexural Strength | ASTM D790 | 2.8mm/min | kgf/cm ² | 630 |
| Flexural Modulus | ASTM D790 | 2.8mm/min | kgf/cm ² | 21000 |
| Izod Impact Strength(notched) | ASTM D256 | 1/4 inch at 23°C | kgf-cm/cm | 22 |
| Izod Impact Strength(notched) | ASTM D256 | 1/8 inch at 23°C | kgf-cm/cm | 35 |
| Rockwell Hardness | ASTM D785 | R-Scale | - | 109 |
| Thermal | | | | |
| Heat Deflection Temperature | ASTM D648 | 18.56kgf/cm ² , 6.4mm | °C | 84 |
| Heat Deflection Temperature | ASTM D648 | 4.6kgf/cm ² , 6.4mm | °C | - |
| VICAT Softening Temperature | ISO 306 | B/50 | °C | 99 |

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 : 2021/05/10
