

ASTM Property

INFINO.

Grade SA-1100

Resin Type PC

| Item | Measuring Method | Condition | Unit | Value |
|-------------------------------|------------------|----------------------------------|---------------------|-----------|
| Physical | | | | |
| Specific Gravity | ASTM D792 | Natural or representative color | - | 1.2 |
| Melt Flow Index | ASTM D1238 | 300 °C, 1.2kg | g/10min | 9 |
| Mold Shrinkage(MD) | ASTM D955 | Flow at 3.2mm(MD) | % | 0.46~0.56 |
| Mold Shrinkage(TD) | ASTM D955 | X-Flow at 3.2mm(TD) | % | 0.48~0.58 |
| Mechanical | | | | |
| Tensile Strength at Yield | ASTM D638 | 50mm/min | kgf/cm ² | 650 |
| Tensile Strain at break | ASTM D638 | 50mm/min | % | 91 |
| Tensile Modulus | ASTM D638 | 50mm/min | kgf/cm ² | 20500 |
| Tensile Strength at break | ASTM D638 | 50mm/min | kgf/cm ² | 670 |
| Flexural Strength | ASTM D790 | 2.8mm/min | kgf/cm ² | 980 |
| Flexural Modulus | ASTM D790 | 2.8mm/min | kgf/cm ² | 23000 |
| Izod Impact Strength(notched) | ASTM D256 | 1/4 inch at 23°C | kgf·cm/cm | 20 |
| Izod Impact Strength(notched) | ASTM D256 | 1/8 inch at 23°C | kgf·cm/cm | 70 |
| Rockwell Hardness | ASTM D785 | R-Scale | - | 120 |
| Thermal | | | | |
| Heat Deflection Temperature | ASTM D648 | 18.56kgf/cm ² , 6.4mm | °C | 127 |
| VICAT Softening Temperature | ISO R 306 | B/50 | °C | 142 |
| Flammability | | | | |
| Flammability | UL94 | V-2 | mm | 1.5-3.0 |
| Glow-Wire Ignition Index | IEC 60695-2-13 | 1.5mm | °C | 875 |
| Electric | | | | |
| Comparative Tracking Index | IEC 60112 | - | PLC | 3 |

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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