

## ASTM Property

|               |            |          |
|---------------|------------|----------|
| <b>INFINO</b> | Grade      | SC-1100R |
|               | Resin Type | PC       |

E&E, Consumer Product

| Item                          | Measuring Method | Condition                        | Unit                | Value    |
|-------------------------------|------------------|----------------------------------|---------------------|----------|
| Physical                      |                  |                                  |                     |          |
| Specific Gravity              | ASTM D792        | Natural or representative color  | -                   | 1.2      |
| Melt Flow Index               | ASTM D1238       | 300℃, 1.2kg                      | g/10min             | 11.5     |
| Mold Shrinkage(MD)            | ASTM D955        | Flow at 3.2mm(MD)                | %                   | 0.5~0.7  |
| Mold Shrinkage(TD)            | ASTM D955        | X-Flow at 3.2mm(TD)              | %                   | 0.5~0.7  |
| Mechanical                    |                  |                                  |                     |          |
| Tensile Strength at Yield     | ASTM D638        | 50mm/min                         | kgf/cm <sup>2</sup> | 640      |
| Tensile Strain at break       | ASTM D638        | 50mm/min                         | %                   | 110      |
| Tensile Modulus               | ASTM D638        | 50mm/min                         | kgf/cm <sup>2</sup> | 23000    |
| Tensile Strength at break     | ASTM D638        | 50mm/min                         | kgf/cm <sup>2</sup> | 640      |
| Flexural Strength             | ASTM D790        | 2.8mm/min                        | kgf/cm <sup>2</sup> | 920      |
| Flexural Modulus              | ASTM D790        | 2.8mm/min                        | kgf/cm <sup>2</sup> | 23000    |
| Izod Impact Strength(notched) | ASTM D256        | 1/4 inch at 23℃                  | kgf·cm/cm           | 15       |
| Izod Impact Strength(notched) | ASTM D256        | 1/8 inch at 23℃                  | kgf·cm/cm           | 87       |
| Rockwell Hardness             | ASTM D785        | R-Scale                          | -                   | 120      |
| Thermal                       |                  |                                  |                     |          |
| Heat Deflection Temperature   | ASTM D648        | 18.56kgf/cm <sup>2</sup> , 6.4mm | ℃                   | 127      |
| Heat Deflection Temperature   | ASTM D648        | 4.6kgf/cm <sup>2</sup> , 6.4mm   | ℃                   | 137      |
| VICAT Softening Temperature   | ISO 306          | B/50                             | ℃                   | 146      |
| Flammability                  |                  |                                  |                     |          |
| Flammability                  | UL94             | V-2                              | mm                  | 0.75~3.0 |

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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