

|                                                                                   |            |           |
|-----------------------------------------------------------------------------------|------------|-----------|
|  | Grade      | TX-0520IM |
|                                                                                   | Resin Type | MABS      |

Home Appliances, Transparent, High impact, Ice blue color

| Item                                    | Measuring Method | Condition                 | Unit              | Value   |
|-----------------------------------------|------------------|---------------------------|-------------------|---------|
| Physical                                |                  |                           |                   |         |
| Specific Gravity                        | ISO 1183         | Natural or representative | -                 | 1.09    |
| Melt Flow Index                         | ISO 1133         | 220°C, 10kg               | g/10min           | 22      |
| Mold Shrinkage(MD)                      | ISO 294-4        | Flow at 2mm(MD)           | %                 | 0.4~0.8 |
| Mold Shrinkage(TD)                      | ISO 294-4        | X-Flow at 2mm(TD)         | %                 | 0.4~0.8 |
| Mechanical                              |                  |                           |                   |         |
| Tensile Strength at Yield               | ISO 527          | 50mm/min                  | MPa               | 50      |
| Tensile Strain at break                 | ISO 527          | 50mm/min                  | %                 | 25      |
| Tensile Modulus                         | ISO 527          | 50mm/min                  | MPa               | 2100    |
| Tensile Strength at Break               | ISO 527          | 50mm/min                  | MPa               | 35      |
| Flexural Strength                       | ISO 178          | 2mm/min                   | MPa               | 72      |
| Flexural Modulus                        | ISO 178          | 2mm/min                   | MPa               | 2200    |
| Izod Impact Strength (notched)          | ISO 180 1A       | at 23°C, 4mm              | kJ/m <sup>2</sup> | 12      |
| Charpy Impact Strength (V-notched)      | ISO 179 1eA      | at 23°C, 4mm              | kJ/m <sup>2</sup> | 12      |
| Rockwell Hardness                       | ISO 2039-2       | R-scale                   | -                 | 110     |
| Thermal properties                      |                  |                           |                   |         |
| Heat Deflection Temperature(Unannealed) | ISO 75-2         | 1.8MPa, 4.0mm             | °C                | 75      |
| Heat Deflection Temperature(Unannealed) | ISO 75-2         | 0.45MPa, 4.0mm            | °C                | 85      |
| VICAT Softening Temperature             | ISO 306          | B/50                      | °C                | 93      |

| Flame-retarded |           |       |    |         |
|----------------|-----------|-------|----|---------|
| Flammability   | UL94      | HB    | mm | 1.5~3.0 |
| Optical        |           |       |    |         |
| Transmittance  | ISO 13468 | 3.2mm | %  | 90      |
| Haze           | ISO 13468 | 3.2mm | %  | 2.0     |

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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