

## Technical Data Sheet

### SAN(Styrene Acrylonitrile) SAN 310CTR

#### Features

High transparency, Crystal

#### Applications

Cosmetic container, Mixer, Transparent container

| Physical                       | Test Method | Value                  |
|--------------------------------|-------------|------------------------|
| Density                        | ASTM D792   | 1.07 g/cm <sup>3</sup> |
| Melt Flow Index (230°C, 3.8kg) | ASTM D1238  | 20.0 g/10min           |
| (200°C, 5.0kg)                 | ASTM D1238  | 5.5 g/10min            |
| Mold Shrinkage                 | ASTM D955   | 0.2 ~ 0.6 %            |
| Water absorption               | ASTM D570   | 0.3 %                  |

| Mechanical                  | Test Method | Value                                        |
|-----------------------------|-------------|----------------------------------------------|
| Tensile Strength            | ASTM D638   | 620 kg/cm <sup>2</sup><br>(8,804) (psi)      |
| Elongation                  | ASTM D638   | 4.5 %                                        |
| Flexural Strength           | ASTM D790   | 900 kg/cm <sup>2</sup><br>(12,780) (psi)     |
| Flexural Modulus            | ASTM D790   | 33,600 kg/cm <sup>2</sup><br>(477,120) (psi) |
| Izod Impact Strength(3.2mm) | ASTM D256   | 1.5 kgcm/cm<br>(0.28) (ft-lb/in)             |
| Rockwell Hardness(M scale)  | ASTM D785   | 82                                           |

| Thermal                                               | Test Method | Value                |
|-------------------------------------------------------|-------------|----------------------|
| Heat Deflection Temperature(18.6kgf/cm <sup>2</sup> ) | ASTM D648   | 90 °C<br>(194) (°F)  |
| Vicat Softening Temperature(1kg, 50°C/h)              | ASTM D1525  | 107 °C<br>(225) (°F) |

| Flammability              | Test Method | Value |
|---------------------------|-------------|-------|
| Flame Rating - UL (1.6mm) | UL 94       | HB    |

#### Notes

These are just typical properties, not specifications. Users should confirm results by their own test.

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#### Processing guide

| Injection Guide | Unit | Value   |
|-----------------|------|---------|
| Nozzle          | °C   | 190~220 |
| Front           | °C   | 190~210 |
| Middle          | °C   | 180~200 |
| Rear            | °C   | 170~190 |
| Hopper Throat   | °C   | 45      |
| Mold            | °C   | 40~70   |

  

| Drying      | Unit | Value |
|-------------|------|-------|
| Temperature | °C   | 75~85 |
| Time        | hr   | 2~4   |

#### Notes

These are only mentioned as general guidelines.