

Technical Data Sheet

SAN(Styrene Acrylonitrile)

SAN 335T

| | |
|---------------------|---|
| Features | High transparency, Blue tint & Ice |
| Applications | Cups, Water tank for humidifier, Mixer, Juicer, Pencil case, CD case, Office applications |

| Physical | | Test Method | Value |
|------------------|----------------|-------------|------------------------|
| Density | | ASTM D792 | 1.07 g/cm ³ |
| Melt Flow Index | (230°C, 3.8kg) | ASTM D1238 | 10.0 g/10min |
| | (200°C, 5.0kg) | ASTM D1238 | 3.0 g/10min |
| Mold Shrinkage | | ASTM D955 | 0.2 ~ 0.6 % |
| Water absorption | | ASTM D570 | 0.3 % |

| Mechanical | | Test Method | Value |
|-----------------------------|--|-------------|--|
| Tensile Strength | | ASTM D638 | 710 kg/cm ² (10,082) (psi) |
| Elongation | | ASTM D638 | 4.5 % |
| Flexural Strength | | ASTM D790 | 1,050 kg/cm ² (14,910) (psi) |
| Flexural Modulus | | ASTM D790 | 34,500 kg/cm ² (489,900) (psi) |
| Izod Impact Strength(3.2mm) | | ASTM D256 | 1.5 kgcm/cm (0.28) (ft-lb/in) |
| Rockwell Hardness(M scale) | | ASTM D785 | 84 |

| Thermal | | Test Method | Value |
|---|--|-------------|----------------------|
| Heat Deflection Temperature(18.6kgf/cm ²) | | ASTM D648 | 92 °C (198) (°F) |
| Vicat Softening Temperature(1kg, 50°C/h) | | ASTM D1525 | 107 °C (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.