

Technical Data Sheet

SAN(Styrene Acrylonitrile)

SAN 330I

| | |
|---------------------|----------------------------------------------------|
| Features | High transparency, High rigid, Blue ice |
| Applications | Sunvisor, Fan, Vegetable container of Refrigerator |

| Physical | Test Method | Value |
|------------------|----------------|------------------------|
| Density | ASTM D792 | 1.07 g/cm ³ |
| Melt Flow Index | (230°C, 3.8kg) | 8.0 g/10min |
| | (200°C, 5.0kg) | 2.4 g/10min |
| Mold Shrinkage | ASTM D955 | 0.2 ~ 0.6 % |
| Water absorption | ASTM D570 | 0.3 % |

| Mechanical | Test Method | Value |
|-----------------------------|-------------|----------------------------------------------|
| Tensile Strength | ASTM D638 | 705 kg/cm ² (10,011) (psi) |
| Elongation | ASTM D638 | 4.5 % |
| Flexural Strength | ASTM D790 | 855 kg/cm ² (12,141) (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 | 85 |

| Thermal | Test Method | Value |
|-------------------------------------------------------|-------------|----------------------|
| Heat Deflection Temperature(18.6kgf/cm ²) | ASTM D648 | 91 °C (196) (°F) |
| Vicat Softening Temperature(1kg, 50°C/h) | ASTM D1525 | 108 °C (226) (°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.

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