

**Technical Data Sheet**

**SAN(Styrene Acrylonitrile)**

**SAN 350HW**

|                     |                                                    |
|---------------------|----------------------------------------------------|
| <b>Features</b>     | Super high strength, High heat resistance          |
| <b>Applications</b> | Disposable lighter, Electric fan, Electronic parts |

| Physical         | Test Method               | Value                  |
|------------------|---------------------------|------------------------|
| Density          | ASTM D792                 | 1.07 g/cm <sup>3</sup> |
| Melt Flow Index  | (230°C, 3.8kg) ASTM D1238 | 6.0 g/10min            |
|                  | (200°C, 5.0kg) ASTM D1238 | 1.4 g/10min            |
| Mold Shrinkage   | ASTM D955                 | 0.2 ~ 0.6 %            |
| Water absorption | ASTM D570                 | 0.3 %                  |

| Mechanical                  | Test Method | Value                                        |
|-----------------------------|-------------|----------------------------------------------|
| Tensile Strength            | ASTM D638   | 810 kg/cm <sup>2</sup><br>(11,502) (psi)     |
| Elongation                  | ASTM D638   | 4.5 %                                        |
| Flexural Strength           | ASTM D790   | 1,100 kg/cm <sup>2</sup><br>(15,620) (psi)   |
| Flexural Modulus            | ASTM D790   | 35,900 kg/cm <sup>2</sup><br>(509,780) (psi) |
| Izod Impact Strength(3.2mm) | ASTM D256   | 1.5 kgcm/cm<br>(0.28) (ft-lb/in)             |
| Rockwell Hardness(M scale)  | ASTM D785   | 86                                           |

| Thermal                                               | Test Method | Value                |
|-------------------------------------------------------|-------------|----------------------|
| Heat Deflection Temperature(18.6kgf/cm <sup>2</sup> ) | ASTM D648   | 94 °C<br>(201) (°F)  |
| Vicat Softening Temperature(1kg, 50°C/h)              | ASTM D1525  | 109 °C<br>(228) (°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**

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

  

| <b>Drying</b> | <b>Unit</b> | <b>Value</b> |
|---------------|-------------|--------------|
| Temperature   | °C          | 75~85        |
| Time          | hr          | 2~4          |

**Notes**

These are only mentioned as general guidelines.