KUMHO PETROCHEMICAL

beyond the best

**Technical Data Sheet**

# SAN(Styrene Acrylonitrile)
# SAN 350HW

**Features** Super high strength, High heat resistance
**Applications** Disposable lighter, Electric fan, Electronic parts

| Physical | | Test Method | Value |
|---|---|---|---|
| Density | | ASTM D792 | 1.07 $g/cm^3$ |
| Melt Flow Index | (230℃, 3.8kg) | ASTM D1238 | 6.0 g/10min |
| | (200℃, 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 $kg/cm^2$ (11,502) (psi) |
| Elongation | ASTM D638 | 4.5 % |
| Flexural Strength | ASTM D790 | 1,100 $kg/cm^2$ (15,620) (psi) |
| Flexural Modulus | ASTM D790 | 35,900 $kg/cm^2$ (509,780) (psi) |
| Izod Impact Strength(3.2mm) | ASTM D256 | 1.5 kgcm/cm (0.28) (ft·lb/in) |
| Rockwell Hardness(M scale) | ASTM D785 | 86 |

| Thermal | Test Method | Value |
|---|---|---|
| Heat Deflection Temperature(18.6kgf/$cm^2$) | ASTM D648 | 94 ℃ (201) (℉) |
| Vicat Softening Temperature(1kg, 50℃/h) | ASTM D1525 | 109 ℃ (228) (℉) |

| 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 | ℃ | 190~220 |
| Front | ℃ | 190~210 |
| Middle | ℃ | 180~200 |
| Rear | ℃ | 170~190 |
| Hopper Throat | ℃ | 45 |
| Mold | ℃ | 40~70 |

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

**Notes**

These are only mentioned as general guidelines.



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