

# KUMHO PETROCHEMICAL

## 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> (11,502) (psi)
Elongation		ASTM D638	4.5 %
Flexural Strength		ASTM D790	1,100 kg/cm <sup>2</sup> (15,620) (psi)
Flexural Modulus		ASTM D790	35,900 kg/cm <sup>2</sup> (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 <sup>2</sup> )		ASTM D648	94 °C (201) (°F)
Vicat Softening Temperature(1kg, 50°C/h)		ASTM D1525	109 °C (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.