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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