KUMHO PETROCHEMICAL

beyond the best

Technical Data Sheet

SAN(Styrene Acrylonitrile)
SAN 350

Features High strength

Applications Flow-meter case, Electric & electronic parts

Physical		Test Method	Value
Density		ASTM D792	1.07 g/cm^3
Melt Flow Index	(230℃, 3.8kg)	ASTM D1238	11.0 g/10min
	(200℃, 5.0kg)	ASTM D1238	3.3 g/10min
Mold Shrinkage		ASTM D955	0.2 ~ 0.6 %
Water absorption		ASTM D570	0.3 %

Mechanical	Test Method	Value
Tensile Strength	ASTM D638	780 kg/cm^2 (11,076) (psi)
Elongation	ASTM D638	4.5 %
Flexural Strength	ASTM D790	1,050 kg/cm^2 (14,910) (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	93 ℃ (199) (℉)
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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