

Manufacturer: KUMHO PETROCHEMICALS

*beyond
the best*

SAN(Styrene Acrylonitrile)

SAN 310CTR

Features High transparency, Crystal

Applications Cosmetic container, Mixer, Transparent container

Physical	Test Method	Value
Density	ASTM D792	1.07 g/cm ³
Melt Flow Index (230°C, 3.8kg)	ASTM D1238	10.0 g/10min
(200°C, 5.0kg)	ASTM D1238	5.5 g/10min
Mold Shrinkage	ASTM D955	0.2~0.6 %
Water absorption	ASTM D570	0.3 %

Mechanical	Test Method	Value
Tensile Strength	ASTM D638	620 kg/cm ² (8,804) (psi)
Elongation	ASTM D638	4.5 %
Flexural Strength	ASTM D790	900 kg/cm ² (12,780) (psi)
Flexural Modulus	ASTM D790	33,600 kg/cm ² (477,120) (psi)
Izod Impact Strength(3.2mm)	ASTM D256	1.5 kgcm/cm (0.28) (ft-lb/in)
Rockwell Hardness(M scale)	ASTM D785	82

Thermal	Test Method	Value
Heat Deflection Temperature(18.6kgf/cm ²)	ASTM D648	90 °C (194) (°F)
Vicat Softening Temperature(1kg, 50°C/h)	ASTM D1525	107 °C (225) (°F)

Flammability	Test Method	Value
Flame Rating - UL (1.6mm)	UL 94	HB

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Processing guide

Injection Guide	Unit	Value
Nozzle	°C	190~220
Front	°C	190~210
Middle	°C	180~200
Rear	°C	170~190
Hopper Throat	°C	45
Mold	°C	40~70

Drying

	Unit	Value
Temperature	°C	75~85
Time	hr	2~4

Notes

These are only mentioned as general guidelines.